an adaptive reuse plan
MT ELLIOTT INTERPRETIVE CENTER



MT. ELLIOTT INTERPRETIVE CENTER

An Adaptive Reuse Plan

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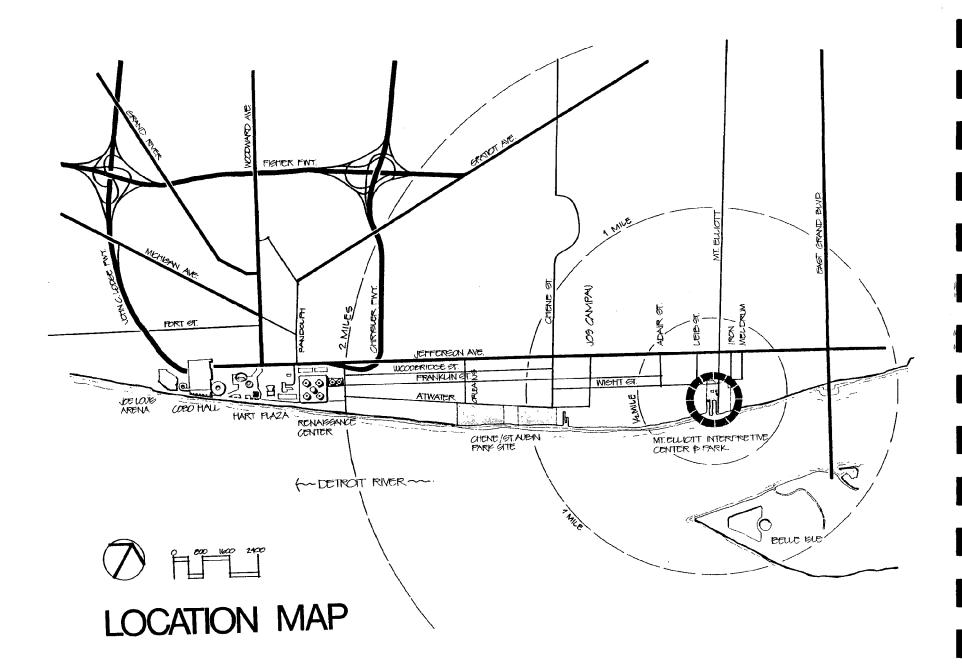
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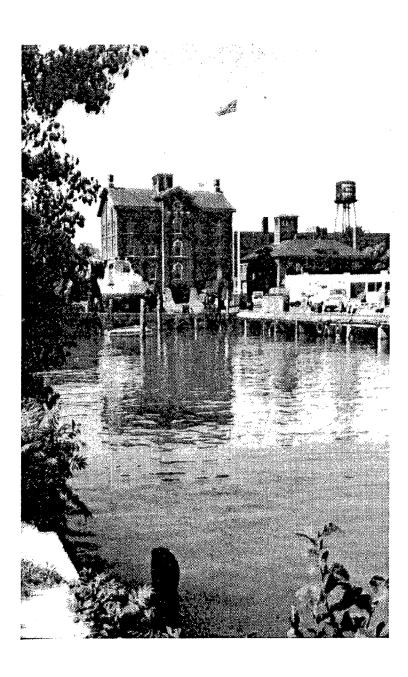
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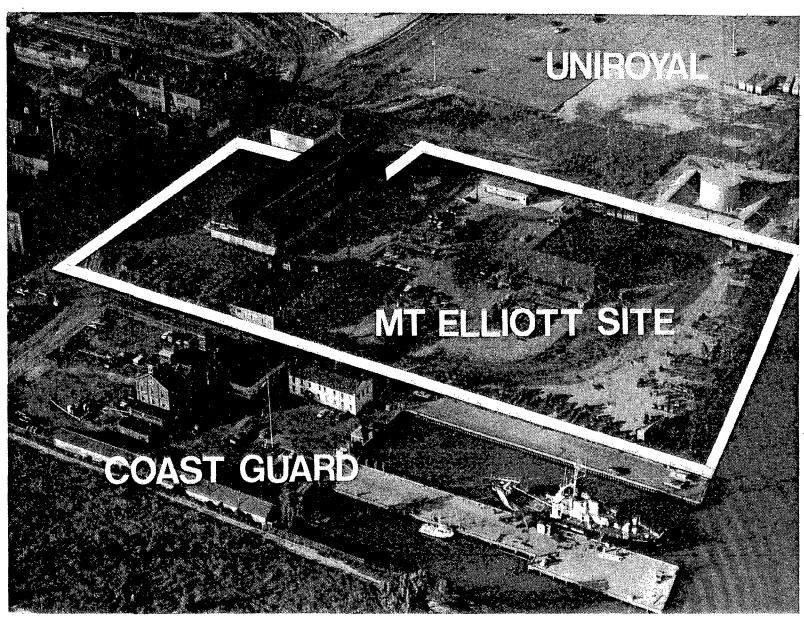




INTRODUCTION

Detroit has been going through a rebirth with national attention focused on its efforts towards redevelopment. Many major developments have occurred or are now planned for the Central Business District. Conventions. tourism, new housing, the ethnic festivals and the popularity of Hart Plaza have brought about renewed interest in the city's riverfront. In 1979 the City of Detroit, Recreation Department, with Coastal Zone Management funds administered by the Michigan Department of Natural Resources, published the Linked Riverfront Parks Plan (LRPP) which proposed a major park system between the Renaissance Center and the Belle Isle Bridge, linking park sites with routes that interpret the cultural and industrial history of the area.

It is one of the recommendations of the LRPP that one or more buildings at the United States Coast Guard Group/Base Detroit head-quarters, located at the foot of Mt. Elliott Street, be adapted for reuse as an Interpretive Center relating regional history to the public. The oldest of these buildings, constructed over 110 years ago, has since become cramped and inefficient for its current use as a storage and maintenance facility. Plans by the U. S. Coast Guard to abandon three of these buildings and construct a new facility on an adjacent site helped stimulate interest in preserving them by developing the Interpretive Center.



The Coast Guard Group Detroit Bast with the Mt. Elliott Park Site

The Center is located adjacent to a proposed park at the foot of Mt. Elliott Street. The park relates closely to the Center and expands the interpretive theme outdoors telling intriguing stores and giving information about the history of the area, the Detroit River and Michigan. Reutilizing these historic structures and developing the Mt. Elliott Park will add a new dimension to Detroit's unique history and stimulate excitement and interest in this emerging activity area along the riverfront.

To achieve these ends, this study has three goals:

- 1. To investigate the future interface between the proposed Interpretive Center and Mt. Elliott Park and all adjacent land uses.
- 2. To assess, program and estimate construction and operations expenses for the Interpretive Center.
- 3. To present a strategy for implementation of the Interpretive Center.

RECOMMENDATIONS & CONCLUSIONS

The following conclusions are drawn and recommendations are made in light that this document contains a variety of subjects, and explore a range of alternatives.

Land Use

In general land uses both east and west of the Mt. Elliott Interpretive Center and Park are seen as developing into new mixed residential and commercial use. Additional land uses will include warehouse industrial conversions to a commercial office and loft apartment use, a 300 car parking structure, and the ongoing land use by the immigration and Naturalization Department and the Coast Guard.

To acquire three historic Coast Guard buildings for conversion to the Interpretive Center, a land trade is proposed in which 1.8 acres (with the buildings) are acquired by the City in exchange for 2.75 acres of City owned land directly west of the existing slips. Here the Coast Guard will develop new facilities to better serve the community.

The proposed Mt. Elliott Park is shown expanded east into the City of Detroit owned, Uniroyal property for a total of 15.7 acres. 1550 feet of river frontage is developed as a fitness, history and marine interpretive park that works closely with the proposed Interpretive Center.

Interpretive Center

The Coast Guard buildings which are proposed to be acquired include the 5-story Lighthouse Supply Depot with the attached 1 story Aids to Navigation Building and the 3 story Engineering Services Building with the attached 1 story Exchange Building.

The Lighthouse Supply Depot Building has an area of 9,960 square feet and is proposed used as an exhibition/museum space displaying permenent and rotating exhibits on a variety of subjects, including Great Lakes Marine information, Detroit and regional History, health, fitness and Natural Resources.

The ESA Building has an area of 9,678 square feet and is programmed as a food concession, bait and tackle concession, rentable and park office space, a conference room, public restrooms and storage.

The Aids to Navigation Building has an area of 1,275 square feet and is programmed to be developed privately as a restaurant.

The Exchange Building has an area of 1,099 square feet and is programmed to be developed privately as a bicycle rental concession.

Implementation

The total projected cost for the recommended development is estimated at \$7,220,000 and is broken down into three basic phases. Certain actions can be undertaken immediately.

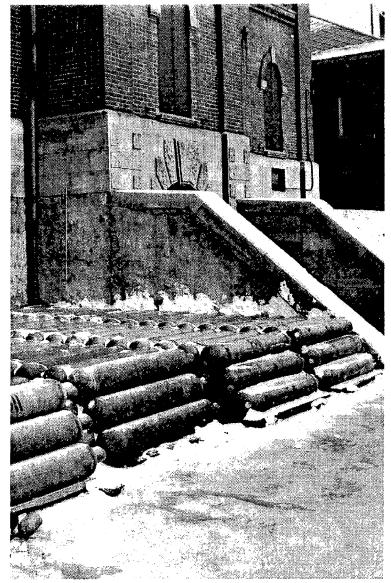
Immediate actions would create an entry at Jefferson and a green park with a stabilized shoreline at the undeveloped Detroit River for \$842,000.

Phase One develops the Interpretive Center exhibition facilities. It also begins the development of Mt. Elliott Park, the Mt. Elliott Street improvements and mini park at Jefferson. The estimated cost is \$3,856,000.

Phase Two develops the concession facilities in the Interpretive Center, the Entry Plaza to the park area and completes Mt. Elliott Park for an estimated cost of \$1,475,000.

Phase Three finishes all uncompleted work and develops the parking structure for an estimated \$1,247,000.

Recommendations for funding sources realizes that many programs previously relied upon, have been cut or eliminated. Although every attempt should be made to secure funds from remaining sources, a greater reliance will be placed on local sources. The development of this project will also enhance adjacent private developments and a portion of the developmental costs of the public improvements should be pro-rated to adjacent private developments.



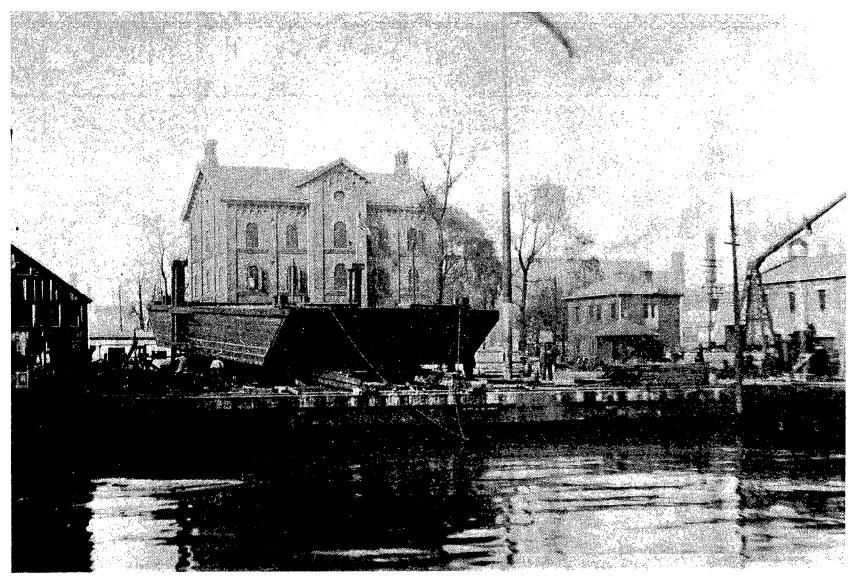
South elevation of Lighthouse Supply Depot showing original iron shutters.

HISTORY

Much of Detroit's rich and varied history is strongly rooted along the Detroit River. It was the reason for the location of the early Indian and French settlements and was the vehicle by which the early city was sustained. Shipworks, sawmills, and ironworks flourished along the river and Detroit became an intense center of trade and manufacturing.

To help maintain the health, safety and welfare of its citizens and protect them from accidents, natural disasters and foreign enemies, the United States Congress established the U. S. Lighthouse Board in 1852 and they, in turn, erected the Lighthouse Depot near the foot of Mt. Elliott Street at Wight Street in the early 1870's. The purpose of this handsome 4-story Romanasque Revival building was to store oil, soap, coal, and all other supplies essential to maintaining lighthouses and other aids to navigation for the Detroit area.

Since the completion of construction in 1874, the Detroit Lighthouse Depot has had the singular function of serving the Great Lakes Region as a central storehouse for lighthouse supplies and bouys. Although its history lacks drama and excitement it has, nonetheless, been significant in playing a necessary role in maintaining the safety and navigability of the Detroit area. The Light House Depot building has been nominated to the National Register of Historic Places by the



Light House Board Central Buoy & Supply Base, circa 1917. Note absence of elevator tower and the ESA Building, at right, before its expansion.

Department of Transportation, United States Coast Guard Ninth District. The following history is taken in large part from the nomination form.

After its creation by Congress in 1852, the nine-member U.S. Lighthouse Board divided the country into twelve lighthouse districts. They appointed an inspector and an engineer to each district. The inspector, who was an officer of the Army, prepared plans and specifications for new lighthouses, supervised their construction and repair, and had charge of the installation and repair of all illuminating apparatus.

The Lighthouse Board set up a central supply depot at Staten Island, New York. the Board established a supply depot in each lighthouse district for the storage of fuel oil, spare illuminating apparatus, buoys, and miscellaneous supplies. By 1880, the number of districts had been enlarged from twelve to fifteen. Detroit served as headquarters for the Eleventh Lighthouse District which included the American shores of the Detroit River, Lakes St. Clair, Huron, Superior, the Straits of Mackinac, and the St. Marys River. The Eleventh District was the largest in the country in extent of shoreline and second largest in number of lighthouses.

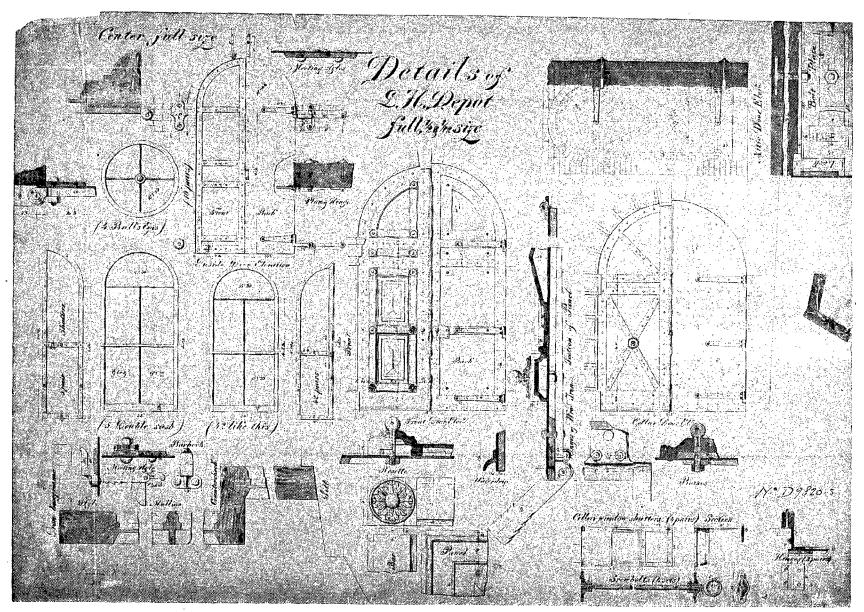
A "buoy and supply depot" was first established at Detroit about 1869 on the grounds of the U. S. Marine Hospital. That year the hospital transferred a portion of its grounds between Wight Street and the Detroit River to the U. S. Treasury Department, which had responsibility for all lighthouse matters. Between 1871 and 1874, a new government

storehouse called the "Light House Depot" was erected at the foot of Mt. Elliott Street, just south of Wight Street. The voluminous records of the U. S. Lighthouse Board, located at the National Archives, document its construction.

In 1870 the Lighthouse Board reported that, "All the oil and other supplies for the lighthouse on the lakes are received at, and distributed from this depot. The small temporary storehouse of wood is not only inadequate in size and unadapted to the service, but is unsafe for the storage of such valuable combustible property ..." The project of building a more permanent masonry storehouse was conceived and begun during Orlando M. Poe's tenure as engineer for the Eleventh Lighthouse District (1870–1873). In a letter to the scientist Joseph Henry, who then was serving as Chairman of the Lighthouse Board, Poe wrote:

In spring of 1870 I entered upon duty as Engineer of the IIth L.H. District and soon afterwards submitted to (the) Board a project for the improvement of the grounds and basin, to fit the Depot to the increased wants of the L.H. (Board).. The improvements actually carried out were the building of bulkheads across the water front and filling in behind — the dredging of the basin to a uniform depth ... (and) erecting a fireproof storehouse of 40'x 60' in plan having an oil cellar in the basement ...

The depot was to be used by the district inspector and engineer. According to Poe, "in constructing the storehouse, it was symmetrically divided on its shortest dimension the



This sheet of construction drawings detailing windows and doors was originally in color.

object being to make a series of rooms on either side of a good wide hall, the rooms on one side of the hall to be occupied by the engineers, and, those on the other side by the inspector."

During 1871, the basement and first two floors of the building were completed. temporary roof was erected to protect the building until work resumed the following spring. During 1872, the walls of the third story were "finished to receive the brackets" and again covered with a temporary roof while construction was suspended for the Work resumed in April 1873. Conwinter. struction of the fireproof iron and slate room was completed and wooden floors were laid in some of the rooms, "great care being exercised to see that the space between them and the supporting arches was completely filled with sand well rammed in."

Work continued during 1874, "until the money was all expended". The ground around the building was graded; sash for all windows were hung; the elevator was installed; the front and basement ("all of iron") were hung; and the basement flagging and the rest of the floors were laid. In 1874, the Lighthouse Board requested an additional \$10,000 from Congress to complete work on the depot and build a new landing dock. request was granted and, between 1875 and 1876, a new dock was built and iron shutters were installed on all windows in the depot. Lighthouse records do not indicate who erected the building, but such projects usually bid to private contractors.

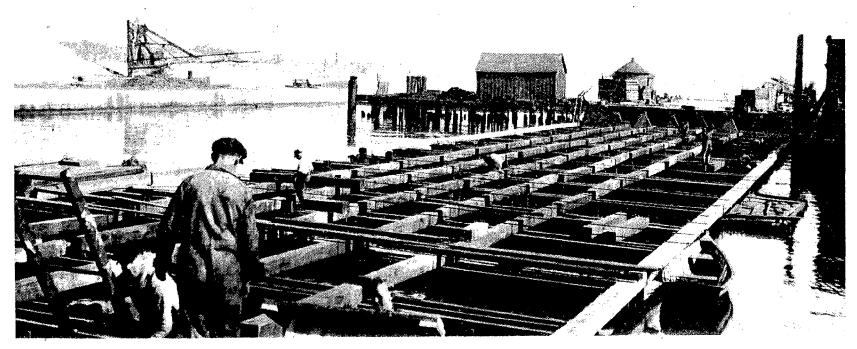
By 1890, the storage function of the depot had been enlarged to include steam fog signal fittings, and the facility served both the Eleventh and Ninth Lighthouse Districts (the latter comprising Lake Erie and Lake On-The building today is part of the tario). U. S. Coast Guard Base Detroit. The Coast Guard has had responsibility for the construction, maintenance, and operation of all aids to navigation since 1939. The depot is still largely used for storage of navigation equipment and supplies, although part of the first floor has been remodeled for office use and a portion of the basement serves as a recreation room. The basement no longer is used to store fuel oil, since virtually all lighthouses now are powered by electricity.

These functions were taken over by the Ninth District of the U. S. Coast Guard in 1939. With a few alterations, the building is still used today as it was then. Much of the space is inadequate, cramped and does not function well for the expanding maintenance duties required of this base. Therefore, the U. S. Coast Guard plans to abandon three structures on the base and to construct a consolidated new industrial and administrative facility on adjacent property designed to better serve the required maintenance of vessels and aids to navigation.

Footnotes:

- I. Francis Ross Holland, Jr., America's Lighthouses: Their Illustrated History Since 1716 (Brattleboro, Vt.: The Stephen Green Press 1972), pp. 35-36.
- 2. Ibid, and Arnold Burges Johnson, The Moder Lighthouse Service (Washington, D.C.: Government Printing Office 1889), pp. 106-107, 119-120.

- 3. "Detroit Buoy & Supply Depot" clippings file, Records of the United States Coast Guard, Record Group 26, Judicial and Fiscal Branch, National Archives, Washington, D.C.
- 4. O. M. Poe to Prof. Joseph Henry, 14 January 187-, Records of the United States Coast Guard, National Archives.
- 5. "Detroit Buoy & Supply Depot" clippings file.
- 6. Carol Poh Miller, <u>National Register of Historic Places</u>, <u>Inventory Nominating Form for the Department of Transportation</u>, <u>United States Coast Guard</u>, <u>Ninth District</u>.



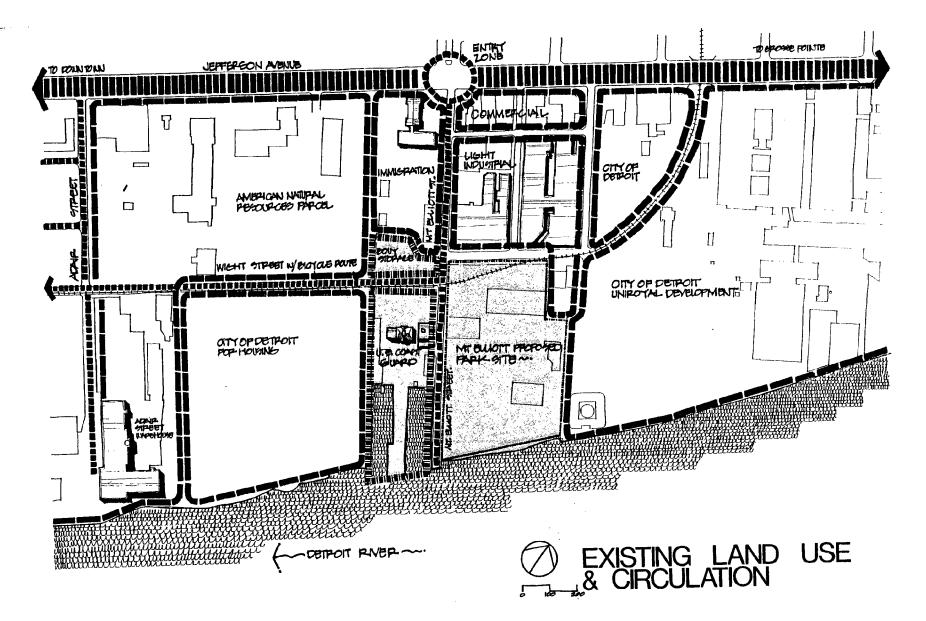
Pier expansion and improvements, circa 1922.

LAND USE DEVELOPMENT

EXISTING LAND USE & CIRCULATION

Land use in the area adjacent to the Coast Guard Base has historically been industrial in nature with commercial uses along Jefferson. The site for the proposed Interpretive Center is the U. S. Coast Guard Group/Base Detroit located at the foot of Mt. Elliott Street, I.8 miles east of the Renaissance Center and .45 miles west of the Belle Isle Bridge. The Coast Guard site is bisected by Wight Street. The parcel north of Wight is 0.76 acres, vacant of any structures and used for buoy storage. The parcel south of Wight consists of 2.04 acres of land area with an additional I.9 acres of slips and pier.

To the east of the Interpretive Center site is a 7.34 acre industrial site. This site had been leased by the Seymore Weissman Company to the Re-Steel Center, White Color Card Company, and the J & J Cartage Company. In 1980 the City of Detroit took title to the property for the Mt. Elliott Park and is presently completing negotiations for the purchase of fixtures and relocation of the com-None of the industries on the site utilize the river frontage and an assessment prepared for the City of Detroit, noted that "most of the existing development has little or no connection with the water and most could be moved to other areas without serious loss of operational capability."



This parcel was purchased with funding provided by the Department of the Interior, Land and Water Conservation Fund. There are significant restrictions covering the uses of land acquired in this manner. These restrictions require that the land remain recreational in perpetuity and may not have any structures erected on it except those used for the service and maintenance of the park, concessions, comfort stations, storage, or open-sided shelters.

East of the proposed Mt. Elliott Park site is the Uniroyal Plant, a large industrial complex abandoned by Uniroyal and bought by the City of Detroit with Community Development Block Grant funds. Much of Uniroyal's riverfront property, developed for parking, is readily adaptable for recreational use and open space.

Northeast of the Coast Guard Base is an area of mixed industrial buildings which are of good scale and character. The most significant of these brick structures is the multistory Warnock Spring building located on the corner of Wight and Mt. Elliott Streets. This building appears to have potential for adaptive re-use. Some dilapidated commercial buildings exist along Jefferson that have interesting facades and offer the potential for rejuvenation. An antiquated vacant gas station at Mt. Elliott and Jefferson may be removed to improve access, visibility and entrance image down Mt. Elliott to the Interpretive Center.

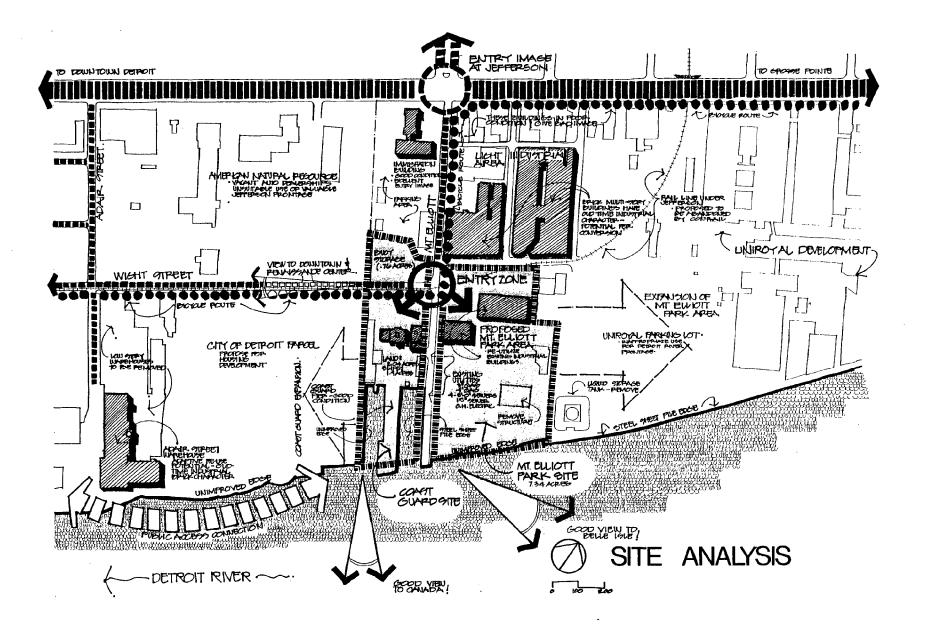
To the north of the Coast Guard Station is the Federal Building housing the Bureau of Immigration and Naturalization. The original building fronting Jefferson Avenue is a well proportioned colonial style structure. A contemporary glass addition was added to the rear in the 1950's. The site is well maintained and forms an attractive entry along Mt. Elliott Street. South of the Immigration Building is a large parking lot that is not fully utilized and is somewhat unattractive.

Vacant land and auto dealerships exist northwest of the Coast Guard Station. This property, along with the City-owned parcel south of Wight Street, is under consideration for development by the American Natural Resources Co. (A.N.R.). The City-owned parcel is free of any structures and has 750 feet of river frontage.

Circulation routes through and around the site include rail, auto, truck, bicycle, and pedestrian paths. Jefferson Avenue is the nearest major vehicular artery. Mt. Elliott, north of Jefferson, has been made into an attractive boulevard. South of Jefferson, however, roads are narrow, unattractive and in poor repair. Traffic on Mt. Elliott and Wight Streets is light.

Rail traffic has run on the streets interferring with vehicular movement. However in June 1981, Conrail abandoned its tracks in the area. This eliminates traffic conflicts, funding is needed to remove the rail spurs and repave the streets.

Pedestrian traffic is minimal due to the nonexistence or poor repair of sidewalks and the lack of, or distance between, attractions. A signed-off bicycle route has been constructed by the City of Detroit Recreation Department as of September 1981 along Wight



to Mt. Elliott to Jefferson, and east along Jefferson to Belle Isle. The entire route links the Island to the proposed Mt. Elliott Park and Interpretive Center area, to the rest of the east riverfront area and on to the Central Business District

SITE ANALYSIS

Topography in the Interpretive Center area lacks any significant grade changes, but drops steadily twenty-one feet from Jefferson Avenue toward the river. The railroad tracks passing under Jefferson Avenue between Meldrum and the Uniroyal plant begin a deep trough that continues northward. The proposed Mt. Elliott Park site slopes two feet from Wight Street to the river's edge. The water line is approximately five to seven feet below the land edge.

There is no significant vegetation in the area except a few mature trees by the Immigration Building at Jefferson. The City of Detroit parcel west of the Coast Guard Base is covered with grasses, woody scrub growth, and undesirable trees. The Mt. Elliott site is devoid of vegetation outside of minor growth at the river's edge.

Shoreline characteristics in the area vary from reinforced steel sheet pile to rubble. The entire edge at the proposed Mt. Elliott Park is unstabilized, broken concrete on a steep embankment. Construction will be required to make the edge useable and safe. East along the Uniroyal site, the edge is made of steel sheet pile which is in good condition. The Coast Guard slips are steel sheet pile except for the western edge which is formed by the remains of a concrete wall

and rubble. The 350 foot Coast Guard pier is constructed of reinforced concrete decking on wood piles, is in good repair and is serviced with 200 amp electrical service. The shoreline of the City of Detroit parcel, west of the Coast Guard, is composed of a variety of material, including dilapidated reinforced concrete and steel sheet pile.

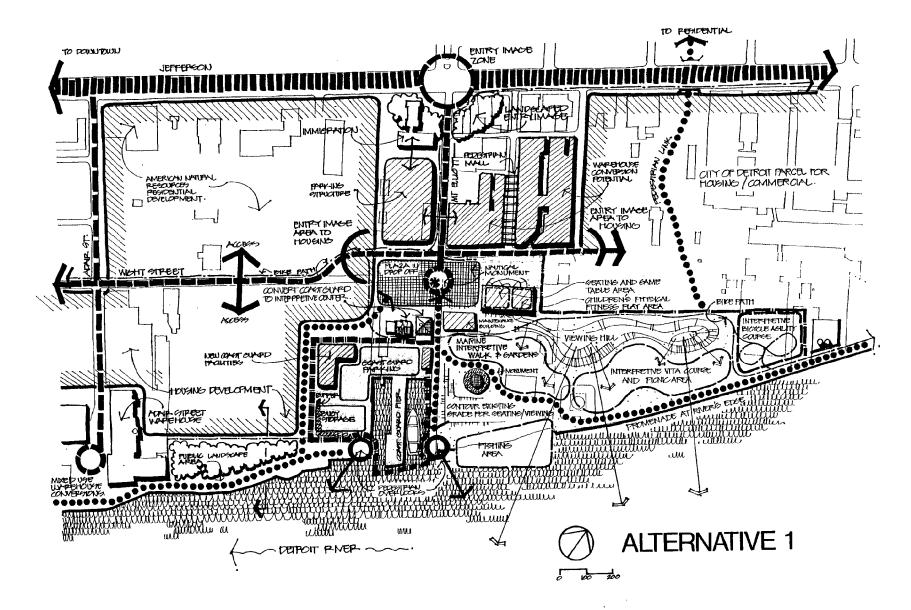
The major utilities in the area include four five-foot diameter sewers below Mt. Elliott Street which act as a storm overflow from the Jefferson intercepter. Also, along Mt. Elliott Street are a 3" and 4" gas line, a 15" sewer and overhead electrical service. Along Wight Street are a 2'8" x 4' sewer and a 12" gas line.

PROPOSED LAND USE & CIRCULATION

After assessing surrounding land uses, proposed developments, impacts on the site, the Coast Guard buildings, and reassessing the proposed Mt. Elliott design, three land use and circulation alternatives were developed.

Alternative One

Based on the potential for intense development of this area, Alternative One takes an active approach to programming the site of the Interpretive Center and Park. This rationale is based on proposals for residential development on the A.N.R. site and existing structures suitable for new development or rehabilitation into mixed use on adjacent properties (Uniroyal and Warnock). The existing brick buildings north of Wight and east of Mt. Elliott currently have viable industrial uses. They are old, in need of repair and existing functions could be more



efficiently housed in new structures. There is a long-term potential for adaptive re-use in this area, including loft apartments, commercial, office or restaurants and cafes.

Wight Street east of Mt. Elliott is proposed as the entry image to proposed mixed use development at Uniroyal. Wight Street west of Mt. Elliott is relocated north approximately 100 feet to align with its eastern extension and act as the entry image to the A.N.R. housing site. If warehouses adjoining Iron Street between Wight and Jefferson are converted to public use, the street can be enclosed into a pedestrian mall.

An extension of the trolley from the Central Business District along existing rail lines can supply an alternate method of transportation. Public pedestrian access to the Detroit River is maintained wherever possible via a promenade that can buffer private development if desired. Sample alternatives to private/public interface are explored in the Issues Section of this report.

Given the increased intensity of development in this Alternative, a three level, three hundred car parking structure is proposed on the northwest corner of Wight and Mt. Elliott Streets. While serving the Park and Interpretive Center, it could be linked via skyways to the Immigration Building and converted warehouses. This location places the parking structure on Federally-owned land. Development options are:

 Acquisition and development by the City. (This seems unlikely since the Federal Government would lose control of the land and the City would incur an unnecessary purchase expense.)

- Land lease and development by the City.
- Cooperative development by the Federal and City Governments.

If none of these options work, the parking structure may be located on the southeast corner of Jefferson and Mt. Elliott behind the landscaped entry image area. This site would be more visible, but further from the Park and Interpretive Center.

A central plaza is the focus of pedestrian flow from the parking deck, the Interpretive Center, the Park and the converted warehouses. Mt. Elliott terminates in a circular drop-off at this plaza. A mini-amphitheater, lighting, seating, bosque of trees, and an entry sign are incorporated into this plaza. A nautical monument is proposed in the center of a drop-off circle acting as a focal point for travellers from along Wight or Mt. It is constructed of a large buoy donated by the U.S. Coast Guard and designed to demonstrate the functions of a buoy as well as be a dramatic visual object. A complete description of the interpretive buoy is found under a separate listing in this report.

In order to acquire the Coast Guard's 2.5 acres of buildings and land for the Interpretive Center and Plaza (including Light House Depot, Machine Shop, the Exchange Building, and the buoy storage yard north of Wight Street), a land trade is proposed

with a City-owned parcel of 3.2 acres west of the Coast Guard. The City-owned parcel extends approximately 250 feet west of the existing Coast Guard property. A 50 foot section inland from the Harbor Line is proposed to remain City-owned for the pedestrian promenande and Coast Guard viewing. Other land trade alternatives are presented in this report under the title "Land Use Issues".

Mt. Elliott Park is health and activity oriented in order to coordinate with the interpretive themes of the proposed Interpretive Eastward, the Park is shown expanded by 8.8 acres into the City-owned Uniroyal site. This increases the proposed Park to 16.14 acres to accommodate participatory functions and to increase public access to the River. One of the three existing buildings on the site is proposed to be demolished, while the two remaining are proposed for re-use. The large Re-Steel Corp. building is proposed as a sheltered area by removing walls and leaving structure and roof. The concrete block building facing Mt. Elliott is proposed to be re-used as a storage, concession and office building.

The park functions include the following activities and areas:

- . Overlook Located at the river's edge at the foot of the Mt. Elliott Street right-of-way, it provides a hard surface area extending into the river with telescopes to view Coast Guard activities, Belle Isle, Canada, shipping vessels, and other activities happening along the river.
- . Fishing Area Located at the river's edge next to the Overlook, it provides ameni-

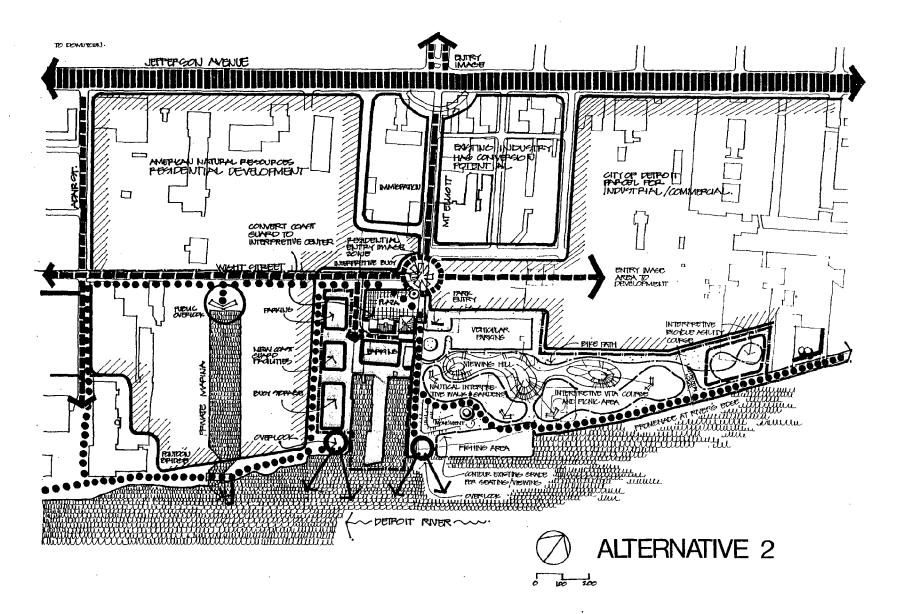
ties for fishing, such as pole supports, seating, water faucets, and various levels of different sizes for intimate, as well as group, fishing. Safe areas are provided for barrier-free fishing access.

- . Promenade Continuing eastward along the river's edge across Uniroyal to the Belle Isle Bridge, a promenade allows for continued access to the river and includes lighting, seating, telescopes, and interpretive signage noting points of interest.
- of Mt. Elliott Park (4-5' above Mt. Elliott Street) is utilized by contouring the grade at the southwest corner of the site to allow for wide grass steps for sitting and viewing of Coast Guard and river activities and for impromptu picnics (although no specific picnic facilities are provided in this area).
- . Nautical Monument Located at the top of the seating area, visible from the river and the central plaza, is a monument dedicated to a significant nautical event or disaster, such as the sinking of the carrier Edmund Fitzgerald. This monument will be the terminus of the Interpretive Center Walking Trail.
- . Interpretive Walking Trail Located in the center of Mt. Elliott Park is a trail that has linkages to the Interpretive Center and continues the interpretive theme outdoors. The trail is based on the Great Lakes, their history, natural geography, existing use, and future. Signage, plaques, relief in the walk and walls, and free standing displays can tell stories in an intriquing way. Rolling topography, land-

scaping and natural flower aras make the path a more pleasant and enclosed experience.

- . View Hill Set to the rear of the site, away from the river, a five foot to seven foot hill rises parallel to the north line of the site undulating in and out, up and down, for interest. This hill is to increase the view of the river from the back of the site. This hill extends under the adapted steel frame building raising the ground to increase the potential view of the river from that point.
- Children's Physical Fitness Interpretive Play Area This play area is located on the view hill beneath the adapted steel frame shelter to allow for rainy day and extended winter use. The play area is based on a fitness theme, yet has a myriad of activities appealing to youngsters.
- . Bicycle Agility Course The bicycle path passes through the site from Mt. Elliott along the northern edge (to avoid pedestrian conflicts) and then to the promenade at approximately 200-300 feet west of the east border. In this 200-300 feet, a Bicycle Agility Trail is located that tests one's bicycle skills, as well as providing information on bicycle safety, use and limitations.
- Interpretive Jogging Course This jogging/exercise trail winds around the site and provides the opportunity for people to exercise out-of-doors at their own pace. Signage tells the user not only what to do, but what effect the exercise has on conditioning and overall physical and mental health.

- . Seating Game Table Area Seating and game tables are located under the adaptive steel frame shelter between the plaza and the children's play area. It is intended as an area for seniors and parents to watch children at play and the activities in the plaza area. Game tables include chess, backgammon, checkers and the like.
- . Picnic Area An area is provided in the center of the Park for picnics. This place provides for shaded as well as sunny areas, and has tables, benches and barbecues provided.



Alternative Two

This land use and circulation proposal assumes the same development concepts as Alternative One but to a lesser degree of intensity. The A.N.R. residential development is assumed to provide its own recreation with a marina bisecting the site. Riverfront access is still maintained across the marina by a floating bridge that swings open when boats approach.

Warehouse conversions north of the Park site are projected to occur at a slower pace and less intensive level. The City-owned Uniroyal parcel may be redeveloped for new industry, a research park or commercial use.

In this Alternative the Mt. Elliott Park takes less land area. The northern 200 feet of the original park area north of the parking lot is traded for a portion of the City-owned Uniroyal parcel adjacent to the Detroit River east of the park site. This would extend 300 feet back from the river at the Mt. Elliott site and narrow to a minimum of 100 feet at the eastern extremity. The total trade would involve relinquishing two acres of the northern part of Mt. Elliott for 4.8 acres along the river, for a total park of 10.14 acres.

This smaller park (as opposed to Alternative One) is suggested for several reasons:

- A smaller park area demands lower development, maintenance and surveillance costs.
- 2. The portion acquired by Uniroyal could be improved and maintained by Uni-

royal development since it acts as a major access to the development.

3. The 200-300 foot dimension is the average distance back from the river that allows users to still relate to water activity.

The land trade to acquire the Coast Guard buildings for the Interpretive Center is similar to Alternative One. The 50 foot easement at the river's edge extends the riverfront promenade along to an overlook at the Coast Guard Station.

Pedestrian access to the river is maintained along the A.N.R. site. A major pedestrian area and overlook is proposed at the Adair St. Warehouse. The pedestrian access along the river turns north from the shore at Adair Street and crosses through the development at Wight Street. Added excitement is created through visual access to the river where the A.N.R. marina meets a mini-park at Wight Street. Public access continues east to the plaza at the Interpretive Center, through Mt. Elliott Park and along the waterfront to Belle Isle.

A plaza in front of the Interpretive Center is extended only to Wight Street. The area north of Wight is improved by A.N.R. as the major entry for that development.

Due to less intense development proposed in this Alternative, the parking structure is no longer provided northwest of Mt. Elliott and Wight. Surface level parking remains in use by the Immigration facility during the week and is proposed opened to the public on weekends. A 70-car lot is provided on the

Mt. Elliott site for users of the park and the Interpretive Center. A drop-off is located between the parking lot and the Interpretive Center.

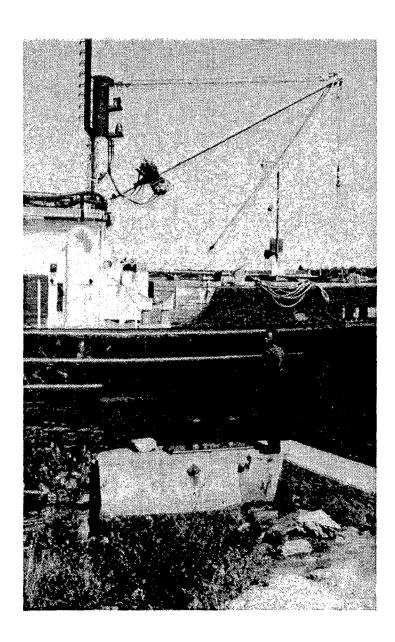
Functions in the park are similar to those in Alternative One. The Re-Steel building and the concrete block building are removed to make way for the land trade and parking. For access and security reasons, comfort facilities and a shelter are provided in small structures near the drop-off area. The overlook, fishing area, promenade, contoured seating, and nautical monument are similar to Alternative One. The Interpretive Walking Trail, View Hill, Bicycle Agility Course, and the Interpretive Jogging Course are all reduced in scale to fit within the limited The Seating and Game area of the park. Table area is incorporated into the entry plaza in front of the Interpretive Center.

Alternative Three

This alternative assumes the Mt. Elliott Interpretive Center is not immediately implemented. This might happen for several reasons:

- I. The funding for eight development or for operation is not immediately available and so defers the Interpretive Center to a later time.
- 2. Potential participants initially showing interest are not able to create exhibits or displays for the Center.
- Operators are not available for the concession functions within the buildings.
- 4. A trade with the Coast Guard cannot be fully negotiated.

If the Interpretive Center is not developed immediately, or at all, the Mt. Elliott Park can still succeed as indicated in either Alternative One or Alternative Two. Development can occur around the Coast Guard buildings, setting the stage for eventual adaptive re-use. This would presume Coast Guard retention of ownership of the buildings for safekeeping in the immediate future while any negotiations required take place.



LAND USE ISSUES

Some future uses and configurations of land adjacent to the Mt. Elliott Parks and the Interpretive Center are as yet unresolved, therefore, five issues (riverfront access, buoy storage location, Coast Guard expansion, potential road closings, and development entries) are developed with alternative solutions.

Riverfront Access

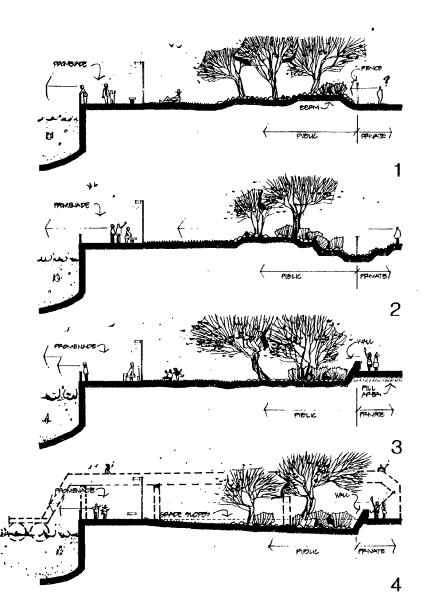
Public riverfront access at private developments has generated a major concern over issues of privacy, security, and marketability versus issues of recreation and public interest. In the area west of the Mt. Elliott Park, proposed by A.N.R. for residential development, four of the many methods of resolving these issues are shown. Not shown is the ideal solution in which public access and private development blend without designed separation.

In light of developers' concerns for security, the following alternatives are suggested:

1. A promenade is placed along the river's edge, with a berm screening the public from the private. A fence provides additional security. The berm, however, could disrupt the view of the Detroit River from the private development.

- 2. A promenade is placed along the river's edge and separated from private development by a landscaped area. At the back of the public area, the ground drops to form a trench with a wall or fence out of site and not obstructing views. However, the trench itself may become a maintenance or security problem by collecting trash or providing a place to hide.
- 3. Private development is raised above the public areas, allowing for a grade separation as well as visual connection to the river over the public area. The amount of fill required to raise the site could, however, become costly.
- 4. This method provides for separation by gently sloping the grass and planting area of the public promenade away from the river, which when reaching a depth of four feet, terminates in a wall rising seven feet six inches. This is the recommended way of providing the separation since it does not obstruct either the public view or the housing area view of the river.

In all cases, access to the river by private development could be achieved by way of an elevated walkway as shown in Alternative Four. A stair winds up to a level 10' above the promenade to a bridge that crosses the public area to a river overlook. Another series of steps may lead to a floating pier in the river. Through variations of this methods, public and private interests can be met while creating improved vistas and sheltered areas.



COAST GUARD

Coast Guard Expansion

The proposed Coast Guard expansion includes only a moderate increase in the Coast Guard property, but more importantly, new structures and land configuration will allow the Coast Guard to perform functions more efficiently and with greater speed. Three alternative directions are explored:

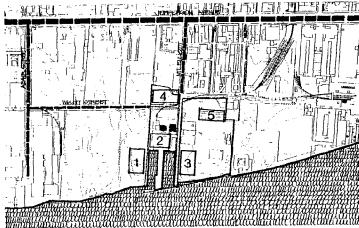
- 1. This option would exchange 2.5 acres of the Coast Guard property (including the historic buildings, the ground area they are sited on, and the buoy storage area north of Wight Street) with 3.2 acres of the City of Detroit parcel to the west. The proposed western boundary is shown 250 feet from the present western Coast Guard property line. The southern bound arv is shown 50 feet from the river (allowing for public easement). The northto-south dimension of the proposed parcel is 500 feet. This location is advantageous because it greatly facilitates movement between ships, building and storage, and because the property to be traded is already city-owned and would not have to be acquired. It's easy access from Wight Street facilitates entry and removes Coast Guard operations from the proposed recreation functions on Mt. Elliott Street.
- 2. This option exchanges the same Coast Guard property noted in option I for a 3.2 acre parcel to the east of the Coast Guard base. This option has the advantages of removing the Base functions from the proposed housing development and utilizes the seawall already existing along the east side of the slip. Several prob-

lems do exist. The trade would involve closing or relocating the Mt. Elliott public right-of-way to the river. This is currently against City policy and would involve a decision by Council. The trade would also involve relinquishing land obtained with Land and Water Conservation Funding (which contradicts criteria that land acquired with this funding remain in public recreation use in perpetuity). Another problem is that in the Mt. Elliott right-of-way is a large storm sewer outflow to the river. This would make construction in this area impossible or extremely costly. The largest concern is that the trade to the east infringes on valuable park land and segregates a necessary connection between the Interpretive Center and the Mt. Elliott Park.

3. This option shows the Coast Guard site as it presently exists and is presented in the event that the Coast Guard decides not to expand or that the City does not find the necessary funding or users to operate in the Interpretive Center.

It should be noted that while option number one is preferred and is shown in the suggested site plan, variations derived through negotiations between interested parties may yield optimum benefit. It may be possible for the Coast Guard to consolidate their new requirements by massing some of their proposed new building into two stories by Wight Street. Or more radically, the Coast Guard could lease their rights to the roofs of new

buildings to developers of adjacent housing for incorporation into the residential design as plaza space or river overlooks. It is recognized that this could be achieved only if security and safety requirements could be met. However, it is felt that creative solutions may yet be available that will maximize use and assist residential/Coast Guard interface.



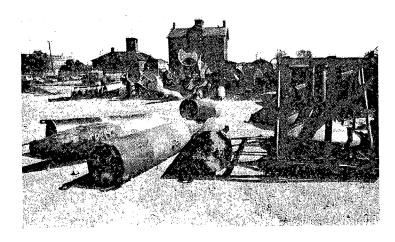
BUOY STORAGE LOCATIONS

Buoy Storage Locations

One of the functions of this Coast Guard Base is the repair and replacement of aids to navigation in the Great Lakes. This requires storage on or adjacent to the Base for buoys that are being refurbished, out of season (there are winter buoys and summer buoys), or for large replacement parts (anchors, chains, cages, spares, nuns and cans). This buoy storage yard has alternatively been described as a visually intriguing function related to the nautical lore and romance of the area or an industrial eyesore. Therefore five options are described:

- I. The recommended location for buoy storage is directly west of the Coast Guard slips. This assumes the Coast Guard Base is expanded to the west this location has been recommended by the Coast Guard officials as the most desirable and has the advantage of being located away from the park area for safety and security reasons. The only reservation about this location is that the view of the storage might be undesirable to, and cause negative reactions from, potential residential developers of the City of Detroit parcel to the west.
- 2. This storage location would have the same ease of operation as the first and would not be adjacent to either the park or the housing development. Being in the center of the Coast Guard activities, this location would be extremely inconvenient, interfere with the operations of the Base, and not be desirable to Coast Guard officials.

- 3. The third location assumes Coast Guard expansion to the east. This option has all the advantages of the first and would be just as desirable if the Coast Guard expansion were to the west. However, this would require relocating Mt. Elliott Street, possibly restructuring or relocating the storm sewers below Mt. Elliott, and relinquishing land obtained with Land and Water Conservation Funds.
- 4. This is the present location of the buoy storage and can remain so if Wight Street does not become an entry to the proposed A.N.R. development. However, it is not a convenient location since buoys must be transported via lift or truck through development and recreation land. Storing buoys this far from the docks not only continues an inefficient and time consuming practice, but now become hazardous since storing and moving these massive steel structures around the public may cause injury.
- 5. This proposal stores the buoys in the existing Re-Steel building and has the advantage of completely removing them from sight for those concerned about the aesthetics of buoy storage. It does, however, pose all the safety problems of storage off-site plus occupies valuable park land and the play and seating shelter.



Existing bouy storage across Wight at the Coast Guard Base.

AMERICAN NATIVAL AMERICAN PARTIES DEVELOPMENT

Development Entries

Surrounding Mt. Elliott Park and the Interpretive Center are several development areas. These include the Uniroyal development area, the American Natural Resources development area, the industrial buildings north of Wight and east of Mt. Elliott, and the Adair Street warehouse conversion.

The entries to these areas are crucial to circulation flow and proper stimulation of development necessary to maintain the vitality of the area.

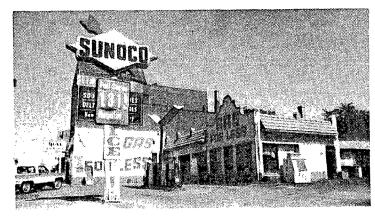
Both Uniroyal and American Natural Resources have frontage directly on Jefferson. The need for access from Jefferson Avenue becomes a question of type of development, the need for identity and visibility from Jefferson, and control and security. Direct access off Jefferson would be necessary for commercial/office development, whereas access from an improved Mt. Elliott by a park would be more desirable for housing development.

Adair Street becomes the major access between the Adair Street Warehouse Conversion and Jefferson Avenue. It can also act as a western entry to the American Natural Resource Housing development.

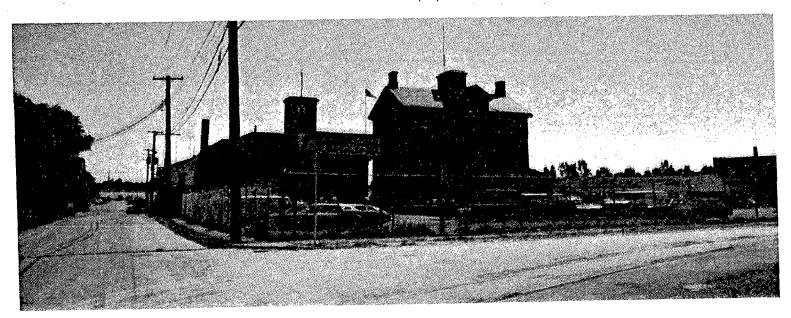
The major entry to the Mt. Elliott Park and the Interpretive Center is at Jefferson Avenue along Mt. Elliott Street. An entrance image is created by a mini-park developed at the vacant gas station on the southeast corner of Jefferson and Mt. Elliott, which opens a

vista and balances the already attractive image generated by the Immigration Department across Mt. Elliott.

Vehicular traffic down Mt. Elliott terminates at a drop-off plaza which defines the Park and orients the user to parking and specific attractions, such as the Interpretive Center. At this point vehicles can turn east or west for movement into or through developments.



This vacant gas station at Mt. Elliott and Jefferson is proposed to be removed for an entrance mini park.



The intersection at Wight and Mt. Elliott. Mt. Elliott from this point to the river is proposed as a pedestrian promenade. Wight is proposed as an entry to the ANR Development.

POTENTIAL ROAD CLOSINGS

Potential Road Closings

It is a natural development of the project area undergoing major land use changes that certain streets be expanded and others be closed. Mt. Elliott Street is proposed to become a major connector to Jefferson. The potential for conversion of the industrial buildings north of Wight and east of Mt. Elliott to pedestrian oriented use might eliminate the need for Iron and Meldrum Streets.

It is proposed that the northern portion of Meldrum be maintained as a service access to the conversion and Iron Street is transformed to an enclosed pedestrian mall connecting Jefferson to Wight.

Mt. Elliott Street south of Wight is closed to automobile traffic and becomes an integral part of Mt. Elliott Park as a promenade connecting the drop-off circle to the overlook at the river.

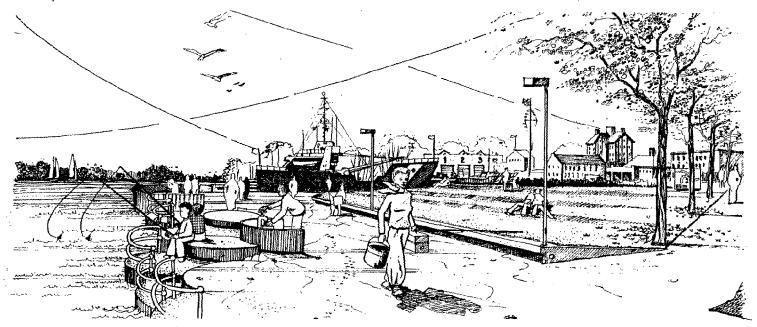
The closing of Wight Street to automobiles could become necessary to limit traffic through the proposed residential areas. This is left to the discretion of the planners of the development. However, pedestrians and bicycles should still be allowed access east-west through the development.

SITE PLAN

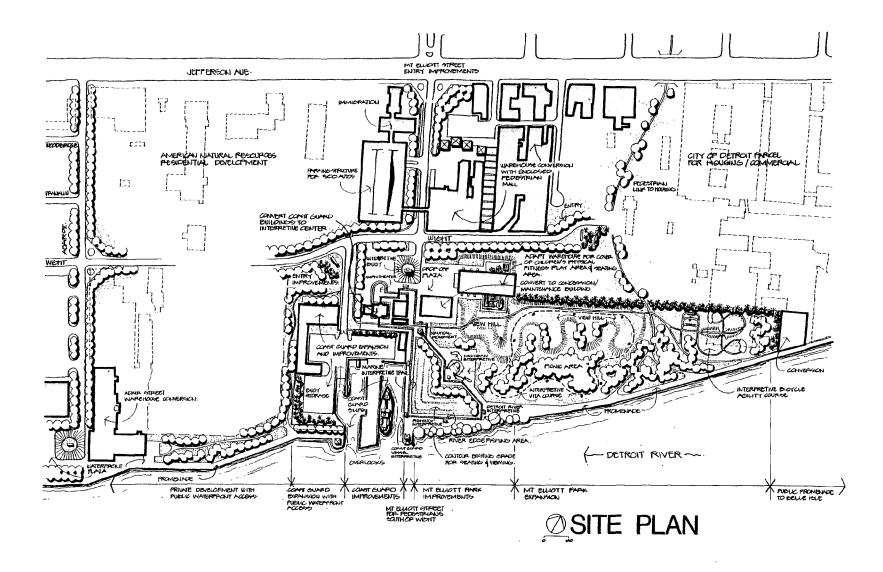
The concepts proposed in Alternative One of the Proposed Land Use and Circulation chapter of this report are developed and graphically depicted in the Site Plan. This is the recommended alternative which achieves the greatest impact and encourages development of adjacent properties. The land use program was developed and modified through a series of meetings with personnel from the City's Recreation Department and Planning Department, and representatives from the Immigration and Naturalization Bureau, the U.S. Coast Guard, American Natural Resources and many others.

The predominant center of public activity occurs along a spine created by Mt. Elliott Street. This center of development is flanked on both sides by large parcels to be developed for mixed-use with residential as its primary function. To the far east is the City-owned Uniroyal parcel, to the immediate east is the recently City-purchased Warnoc Spring complex, and to the west is the American Natural Resources parcel.

The intersection of Mt. Elliott and Jefferson is the main entry to the project area and is



A view of the Mt. Elliott Park riverfront shows fishing, overlook, contoured seating, Coast Guard activity viewing, and the Interpretive Center in the background at right.



enhanced by a mini-park and entry image where a dilapidated gas station presently stands. Mt. Elliott Street is proposed to be repaved and landscapped with shade trees. The sidewalks are proposed to be replaced and enhanced with new lighting and pedestrian amenities.

East of Mt. Elliott the existing warehouse and industrial buildings are proposed for conversion to commercial use on the ground floor and portions of the second level. The remaining levels have the appropriate bay spacing and dimensions to be converted to residential use. Connecting the two major buildings over Iron Street is a proposed glass enclosure creating a pedestrian mall linking Jefferson to Wight, which creates a viable year-round shopping area.

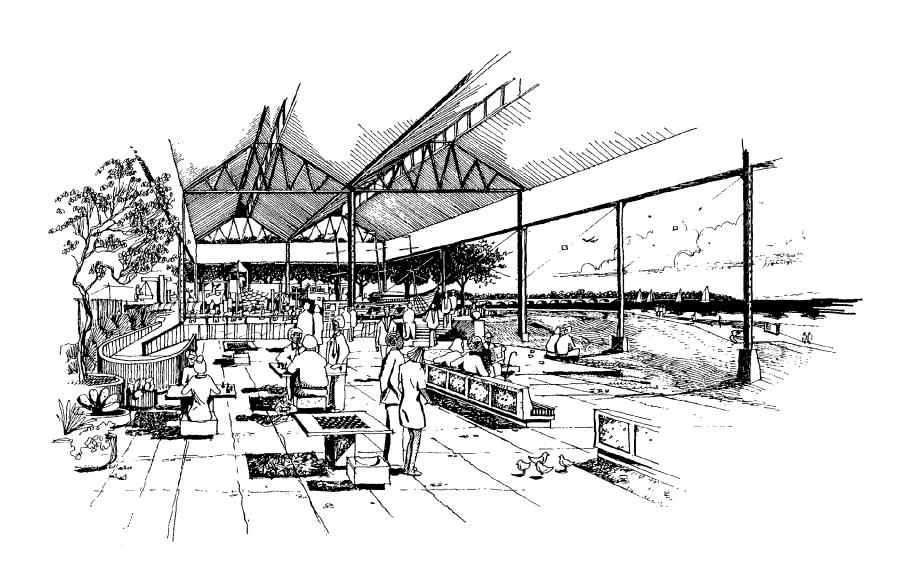
West of Mt. Elliott a three level, 300 car parking structure is shown to accommodate the intensity of proposed development. At the foot of Mt. Elliott Street is the proposed drop-off plaza and turn-around. This plaza will form the central gathering space for the Interpretive Center, Mt. Elliott Park, and the Warehouse Conversion, and includes auto drop-off, seating, a mini-amphitheater, the Interpretive Buoy, and the beginning of the Marine Interpretive Walk.

The Coast Guard Base is expanded to the west to include an additional 3.2 acres with new development, including a light industrial building, administration building, storage and boat shelter space, buoy storage, the M.S.O. office, parking, and an improved western edge of the slip with a boat hoist-way/launch.

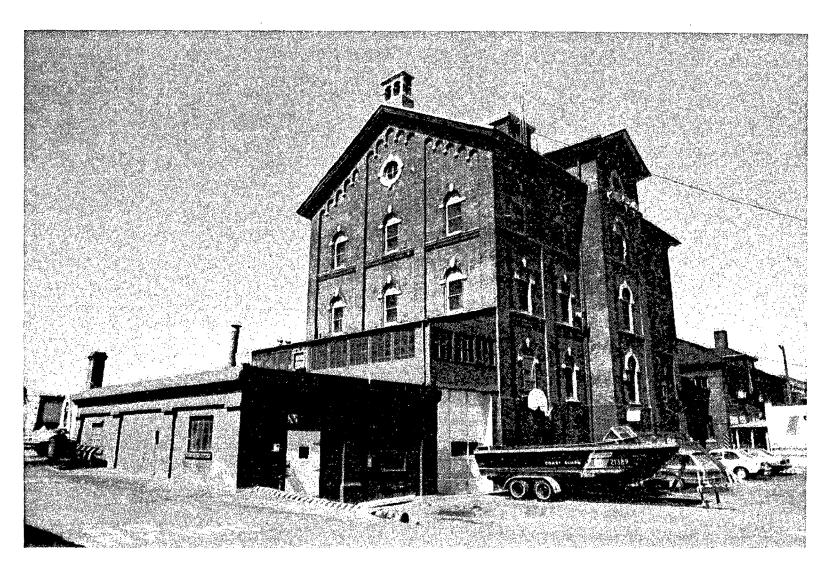
Mt. Elliott Park is programmed to have an intense interpretive theme and designed to have a natural appearance relating both visually and aesthetically to the river. The active functions included in the Park are fully described in Alternative One of the Land Use and Circulation Alternatives.

Generally, the Park includes the adaptation of the large steel industrial building to a covering for the children's physical fitness play area, seating areas, and game tables, and conversion of the concrete block building next to Mt. Elliott Street to concessions, maintenance, office, storage and comfort facilities. Also, in the Park are picnic areas, interpretive jogging course, the promenade, river edge fishing, seating and viewing areas, an overlook with view telescopes, a marine interpretive trail, a bike path and agility course, and a nautical monument.

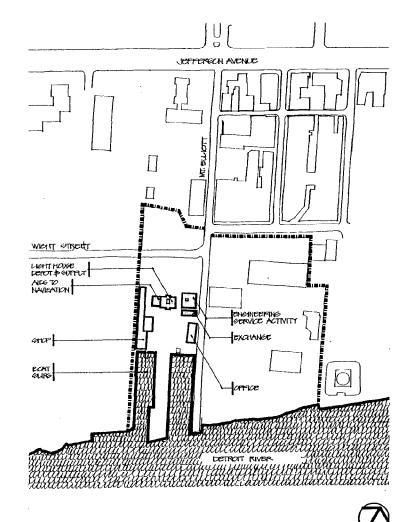
A public promenade maintaining pedestrian access along the river passes through the American Natural Resources development.



A view into the Re-Steel building, converted as a shelter, shows the seniors area, game tables, and children's play area.



A view of the Lighthouse Supply Depot and the Aids to Navigation building from the southwest shows its present utilitarian condition.



INTERPRETIVE CENTER DEVELOPMENT

BUILDING ASSESSMENTS

The general site of the Interpretive Center is composed of four sub-sites including the area developed for the Interpretive Center, the proposed reorganization of the Coast Guard Base, the Mt. Elliott Park Site, and the newly announced American Natural Resources housing site. The Interpretive Center sub-site contains three buildings which are currently used by the Coast Guard, but are proposed for adaptive reuse as the Interpretive Center.

The first and most prominent is the Lighthouse Depot Building consisting of four stories, a substantial attic, and a basement. The Lighthouse Depot is currently used for the storage of supplies, office space, and a recreation deck. A one-story building attached to the west wall of the Lighthouse Depot houses the Aids to Navigation shop.

The second most prominent building is the Engineering Services Activity (E.S.A.) building, located just east of the Lighthouse Depot Building. It is a three-story structure with a partial basement and is currently used as a machine shop on the first level, offices on the second, and storage on the third.

The third and smallest building is the onestory Exchange Building. It is attached to the E.S.A. Building on the south side by a recently installed passageway. The Exchange Building was originally built as a garage, but is currently used as a retail outlet for the Coast Guard Base Exchange.

Lighthouse Depot and Supply Building

ziginiouse Bepot e	and Supply Bullding
Year Constructed:	1871-1874
Builder/Architect:	Major Orlando M. Poe
Materials:	Foundation: Ashlar Stone Exterior Walls: Brick Roof: Sloping slate shin- gles on iron trusses Gutters: Copper
Structure:	Masonry bearing walls with iron columns, floor joists and roof trusses. Wood floors on brick vaults.

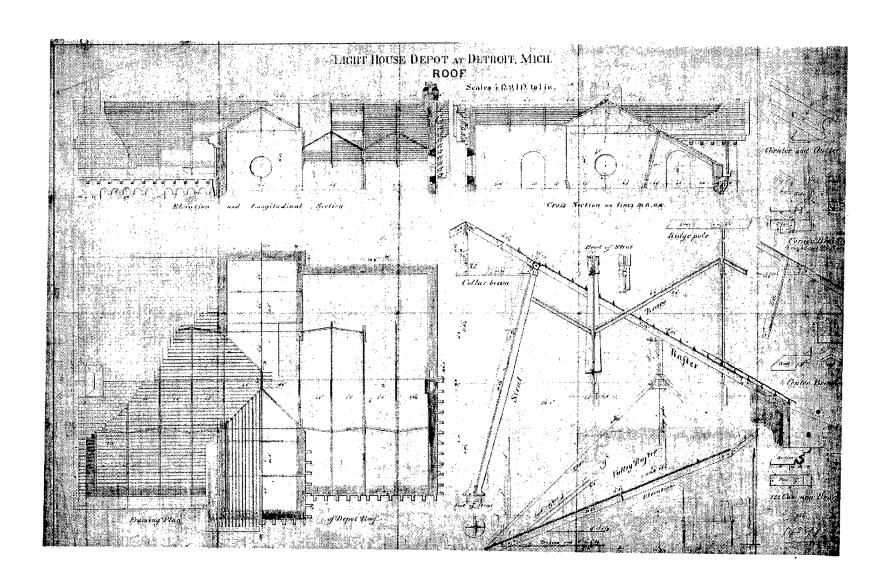
Summary	Entrances			Area	
	N	S	Ε	W	
Level I		1		*	1992
Level 2	1				1992
Level 3					1992
Level 4					1992
Level 5 (attic)					1992
Total sq. ft.					9960

This description is taken directly from the National Register of Historic Places Inventory prepared by a historic preservation sonsultant to the U. S. Coast Guard Ninth District. Corrections or additions are in brackets.

"The Detroit Light House Depot is located on the Detroit River in an older industrial section of the City. It stands within the U.S. Coast Guard Base Detroit compound. It is a three-story and basement building in the Romanasque revival style. The building is 40 feet by 60 feet in size. It is five bays from both the facade and rear of the building. It has brick bearing walls with iron floor joists.

The building rests on an ashlar stone foundation, which has been painted red. At the rear, the round-arched basement entrance features a rock-faced surround with a large keystone; the foundation of the central bay features rock-faced quoins. At the front, the round-arched main entrance is at the first floor (there is a change in grade) and is reached by a double flight of stairs. The words "LT. HO./DEPOT" appear in relief in the stonework flanking the entrance. The date "1871" appears in the keystone above the doorway. Both the front and rear entrances feature round-arched double doors made of cast iron and painted black.

Above the basement, the building is constructed of red brick set in stretcher bond. Each bay is vertically divided by projecting brick piers. Brick and stone string courses divide the first and second, and the second and third floors. The building is distinguished by round-arched windows with stone,



Original working drawings of the Lighthouse Depot showing roof structure.

or brick and stone hoodmoulds. The hoodmoulds in the central bays are made of smooth dressed stone, those in the flanking bays and on the sides of the building are made of a double row of brick headers, with There are four circular stone keystones. attic windows, each with smooth dressed stone surrounds and four keystones. the building's original wooden sash with 2/2 lights recently were replaced with metal sash with I/I lights. The original circular attic. windows are still intact. The building originally had round-arched metal shutters on each window; these have been removed.

At the top of each rank of windows there is arcaded corbelling. The gable roofs of the central bays intersect with the gable roof of the main block. The roof is made of rectangular slate shingles, and there are integral copper gutters (facias and soffits). There are two inside end chimneys with open arcades. A rectangular brick cupola rising from the center of the roof was added much later to house the machinery for the present elevator. On the west side of the building, a one-story engine repair shop was added about 1920 (in 1915).

Inside, the building is symmetrical in plan. A central hall accommodates the elevator and, to one side, the stairway. On each side of the central hall are two storage rooms; the entrance to each room features double, round-arched doors made of cast iron. The same plan is followed throughout the three stories and basement. The inside walls are brick, and there are brick vaulted ceilings throughout. The roof is supported

by iron trusses. Half of the first floor recently was remodeled for use as an office; the cast iron doors were removed, wood paneling was applied over the walls, and a dropped ceiling was added. Part of the third floor has been partitioned, but is otherwise intact." (No plumbing facilities exist in the building outside of a simple drinking fountain. No heating facilities exist in the building except electric baseboard units which warm the recently remodeled office areas.)

Measured drawings of the Lighthouse Supply Depot and the Aids to Navigation Building follow the written assessment of the Aids to Navigation Building.

Aids to Navigation Building

Year constructed: 1915

Builder/Architect: Unknown

Materials:

Foundation: Concrete Exterior Walls: Cast in place reinforced con-

crete

Roof: Flat, built-up on reinforced concrete on

iron trusses
Gutters: None

Structure:

Level I

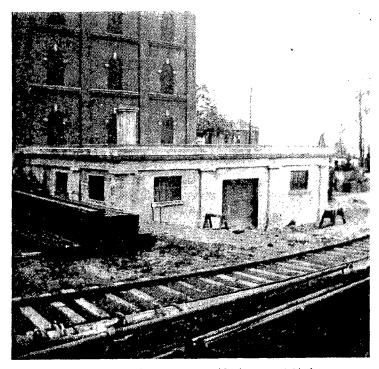
Reinforced concrete with iron roof trusses

Entrances Area N S E W

2

1275 sq.

ft.



The Aids to Navigation Building addition to the Lighthouse Supply Depot, circa 1916. Note the railroad tracks and the absence of the crane bay.

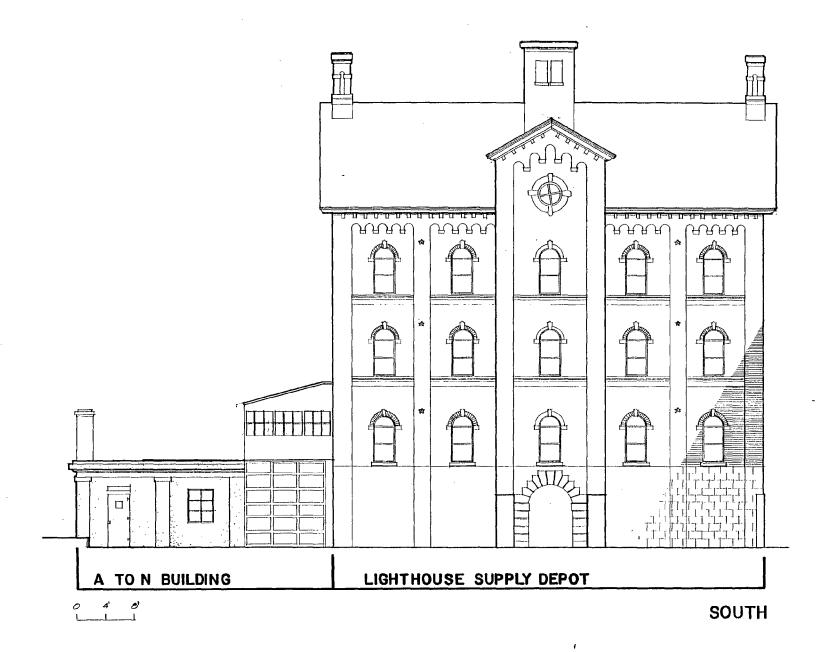
The Aids to Navigation Building was added to the Lighthouse Depot and Supply Building to act as a repair shop for aids to navigation. No passages exist between the Lighthouse Depot and the building.

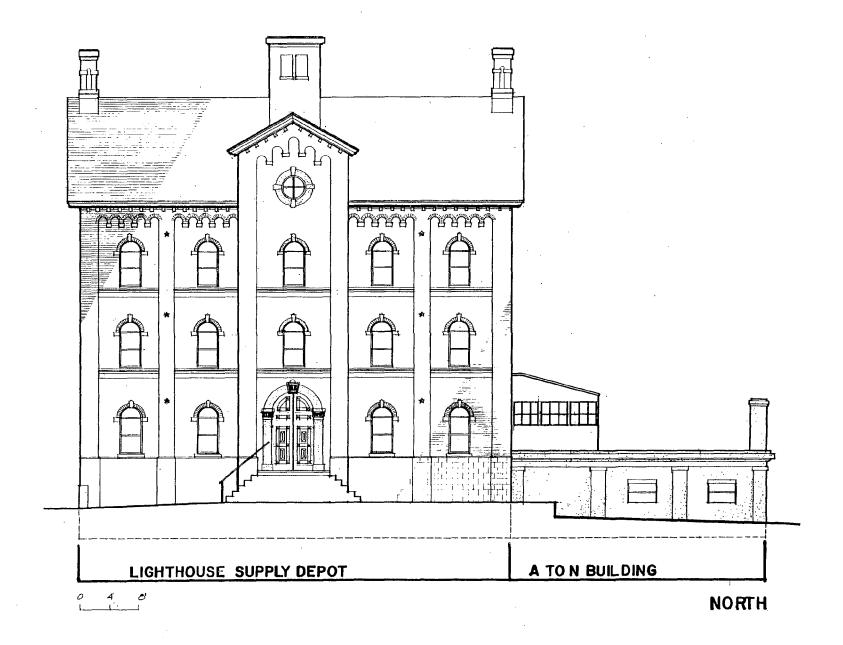
The building is one level with a two-story crane bay used for repairing buoys, adjoining the Lighthouse Depot west wall. The upper level of the crane bay is made of iron and wood with iron trusses. Metal windows forming a clearstory on three sides of the upper area.

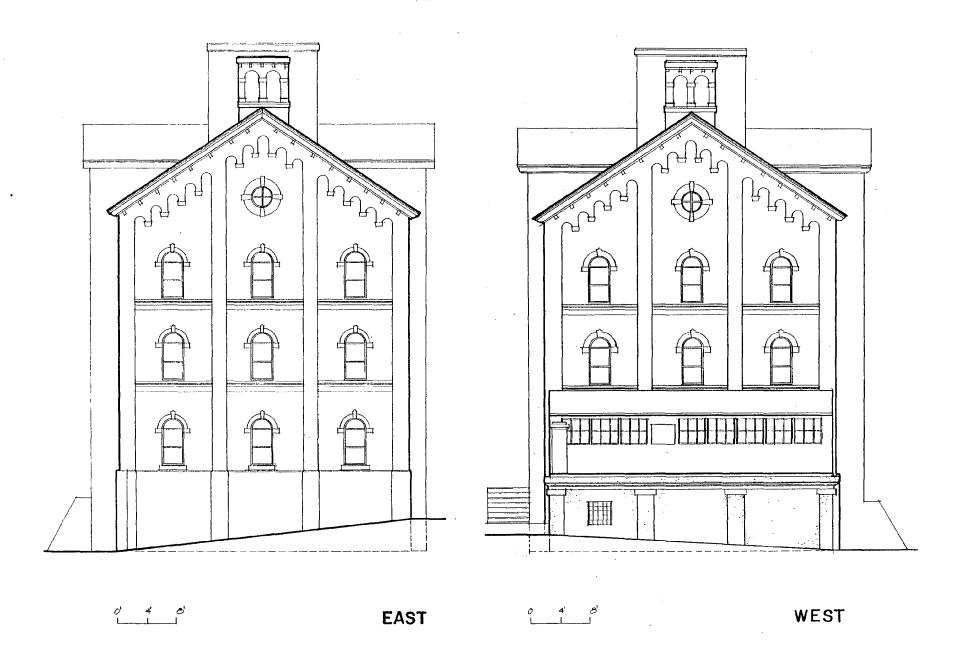
The exterior walls are poured-in-place, reinforced, plastered concrete. The roof structure is concrete on iron trusses. Entry is through a garage door or a steel pedestrian door, both of which are on the south side. There is a concrete chimney on the northwest corner.

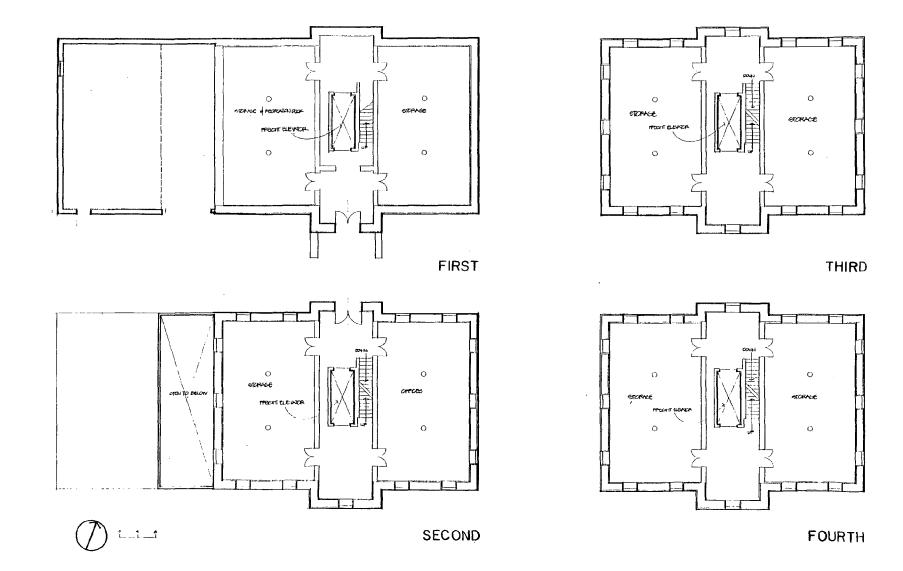
There exists no plumbing in the building. Heat is provided by means of a gas space heater mounted on the ceiling.

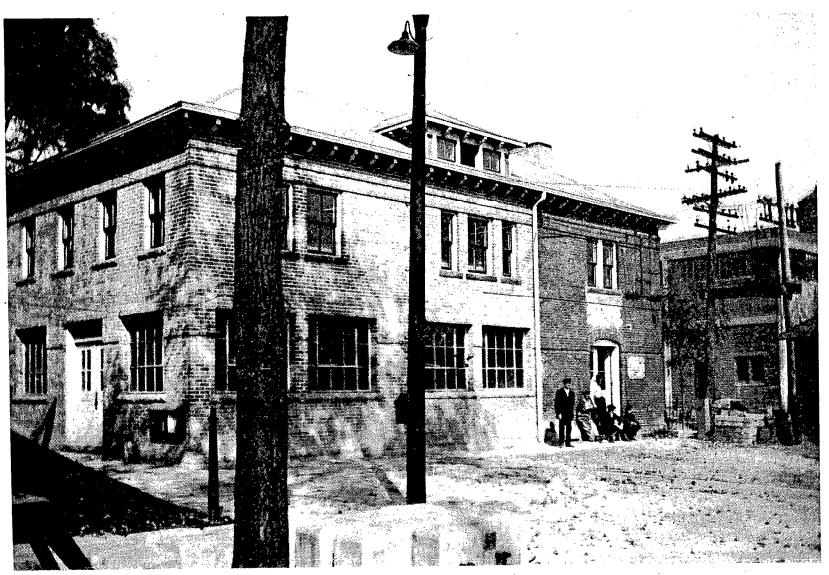
Measured drawings of the Lighthouse Depot and Supply Building and the Aids to Navigation Building follow.











This 1922 photo of the Engineering Service Activity building, prior to construction of the garage, clearly shows the two phases of construction. The darker section on the right was built in 1916 and the lighter section in 1920.

Engineering Service Activity Building

Year constructed: Phase One prior to 1916

Phase Two - 1920

Builder/Architect: Unknown

Materials: Foundation: Stone rubble

in mortar

Exterior Walls: Brick Roof: Shingles on iron

beams and rafters Gutters: Metal

Structure: Masonry bearing wall with

iron interior columns, floor joists and roof

structure

DESCRIPTION

The building was built in two phases, although this is not readily apparent. A vertical joist line exists in the middle of the exterior east and south walls corresponding to a masonry bearing wall that divides the building into two sections. The southeast

quarter of the building was constructed prior to 1916, with the northwest three quarters being completed in 1920. The building rests on a mortared rubble stone foundation with exterior brick bearing walls. Iron columns, beams, and joists support the floor. The roof structure is of wood and is of hip style with four projecting gables, one on each side. The roof overhands approximately 18" with decorative wood brackets and attached metal gutters. A brick cupola projects from the roof and houses the freight elevator equipment.

The windows are double-hung wood windows with stone sills. No storm windows exist. Some windows are bricked shut, some are glass blocked, and some are filled with air conditioners or ventilation fans. A chimney projects from the roof on the east facade.

Inside, the building is functional, bland, and lacks intriguing details. One stair exists to all levels and does not conform to current egress requirements. Heat for the building is provided by an old steam boiler in the lower level. Electric base board heat has been added in office spaces to supplement the steam heat. Plumbing facilities exist in this building.

Measured drawings of the ESA Building and the Exchange Building follow the written assessment of the Exchange Building.

Exchange Building

Year constructed: 1930

Builder/Architect: Unknown

Materials:

Foundation: Not revealed Exterior Walls: Brick Roof: Flat, tar built-up roof, concrete planks on

Gutters: Metal

Structure:

Brick bearing wall support iron beams and rafters with a concrete

steelbeams and rafters

deck system

Summary

Entrances

Area

1 S E W

Level I

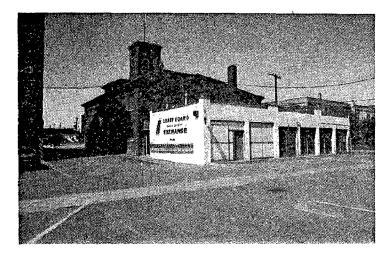
1

1099

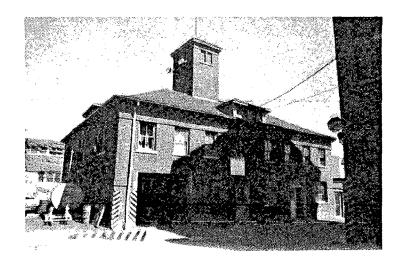
DESCRIPTION

The building was originally built as a 4-bay garage. Two bays were added to the west later with larger doors, but in the same nondescript style. The building has since been used as the base's recreation deck but currently is used as the base exchange. All garage doors are now windows with fencing in front of four.

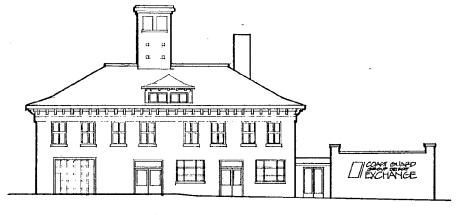
The building is painted white with the west wall advertising the exchange function of the building. The trim is painted black. A small skylighted addition acts as the main entrance and connects the building to the ESA Building.



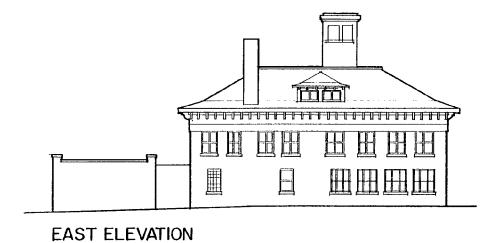
The Exchange Building from the southwest.



The ESA Building from the northwest.

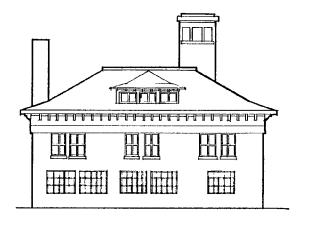


WEST ELEVATION

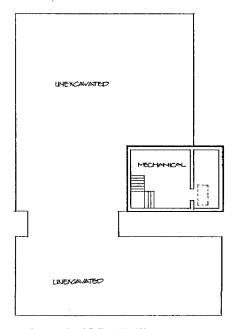




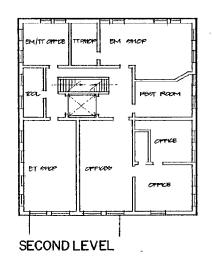
SOUTH ELEVATION

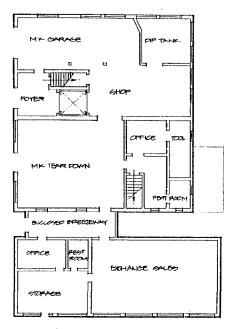


NORTH ELEVATION

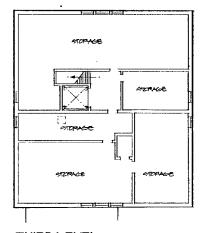


BELOW GRADE LEVEL





FIRST LEVEL



THIRD LEVEL

Existing Building Spatial Summary

The following shows the quantity of space currently available for each building by floor. While alterations or additions to the buildings would modify these figures, significant changes are not anticipated. The data presented forms a good basis for programming future space.

	Circulation	Usable		Total	
	S.F.	%	S.F.	_%	S.F.
Lighthouse Storage Depot					
Level One	516	5	1476	15	1992
Two	516	5	1476	15	1992
Three	516	5	1476	15	1992
Four	516	5	1476	15	1992
Attic (Storage)	. 0	0	1992	20	1992
Total	2064	20	7896	80	9960
Engineering Service Activity					
Basement	480	5	0	0	480
Level One	473	5	2593	25	3066
Two	687	7	2379	29	30 6 6
Three	326	3	2790	26	3066
Total	1966	20	7712	80	9678
Aids to Navigation Building	0	0	1275	100	1275
Exchange Building	190	15	1100	85	1290
Grand Total	4220		17983		22203

INTERPRETIVE CENTER PROGRAM

In order to develop the Mt. Elliott Interpretive Center, specific themes were established that developed into a workable program. These themes were based on the following goals:

- I. To relate information of significant interest to large numbers of people.
- This information should be educational as well as interesting and should be in a flexible format.
- 3. It should be based on elements of life in the Detroit area (history, industry, the riverfront, fitness).
- 4. It should not duplicate information provided at other museums or centers, but should act as a source of supplemental information.

With these goals in mind, a test of potential user interest in the Interpretive Center began consisting of individual meetings, letters, and contacts with various groups and organizations, culminating in a mini-conference.

This Linked Riverfront Parks Mini-Conference was held on April 23, 1981, for the purpose of providing information to a selected group of interested parties, gathering suggestions and generating interest in participation. The topics of the Mini-Conference were:

 An update on the Linked Riverfront Parks Project.

- Presentation of plans for implementation of a holiday and weekend bicycle/pedestrian route between the Renaissance Center and Belle Isle (since completed under a separate contract).
- Presentation of plans to adapt the historic Coast Guard Lighthouse Depot into an Interpretive Center and Museum.

Of the 60 organizations invited, 41 attended, including governmental agencies, educational institutions, local businesses, the United States Coast Guard, the United States Department of Naturalization & Immigration, the Dossin Great Lakes Museum, Department of Natural Resources. Detroit Neurosurgical Foundation, and other professional and civic organizations. A questionnaire was distributed to gather suggestions and to obtain an indication of interest in the projects. Of the 27 forms filled in, 22 indicted a willingness to participate in the Interpretive Center. The questionnaire tested interest in using the building in three ways (using exhibit space, meeting space, and office space). A total of 21 organizations noted they would like to participate through exhibition. Of these. eight groups were willing to erect permanent exhibits and 13 groups to participate on a rotating basis. Twelve groups indicated they would have a need for meeting space. Seven groups would need office space, with only one willing to use the space if rent was charged. Other uses suggested for the Interpretive Center included a location for student field work and internship placement offices for Wayne State University, a visitor information center, and a location for guest lectures.

Armed with data collected from the Mini-Conference, individual meetings and letters of interest, a preliminary program was developed. This program was applied to the existing space which determined the following program.

Lighthouse Supply Depot Program

From the outset it was assumed that the Lighthouse Supply Depot Building would be the focus of the Interpretive Center. Functions in this building include exhibition, meeting, office, and support facilities.

Two types of exhibition space are provided, permanent and rotating. The permanent exhibit could be a display by the U. S. Coast Guard, describing their unique history and displaying uniforms, charts, buoy and other Great Lakes nautical information. Other permanent displays could perhaps include an exhibit sponsored by the Immigration Department on the influx of immigrants from around the world and what areas of Detroit they settled in. Displays could be fabricated that relate to health and physical fitness, energy, or general Great Lakes information.

The rotating exhibits could include information specific to a particular incident, such as boat races or winter activities. To oversee and organize the exhibition spaces, a curator will be required, perhaps with a small staff (see "Operations"). An office is provided to accommodate these people.

The conference/meeting room is recommended as a place for presentations, lectures, conferences, seminars, or informal gatherings.

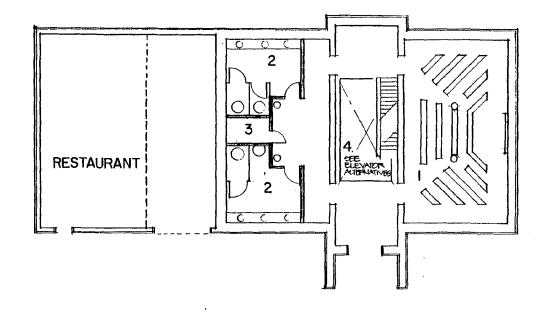
Organizations and businesses could reserve the use of this room on either a fee or nonfee basis.

A lecture/audio visual room is provided for slide shows or movie projection of various interpretive topics. Permanent shows could be running at all times for viewing by visitors to the Center. Special shows could be arranged by reservation or by request covering a variety of topics of special interest.

Restrooms provided on the lower level are designed for use by visitors of the Interpretive Center and are not sized to accommodate the traffic of the entire park. Staff restrooms are provided in the E.S.A. building program, and park user comfort facilities are provided in the conversion of the concrete block building in the Mt. Elliott Park.

Storage is provided in the attic space. This space is not intended to be open to the public.

The following outline program delineates the spatial requirements of these functions:



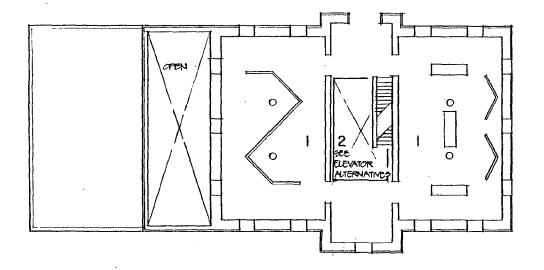
I LECTURE / PROJECTION

2 REST ROOMS

3 MECHANICAL

ELEVATOR

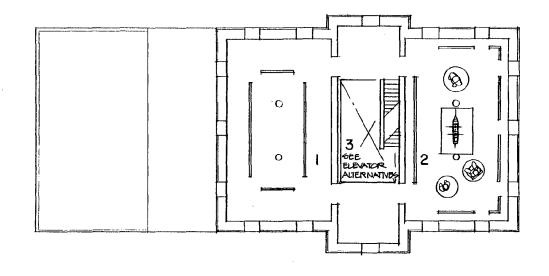
FIRST LEVEL



ROTATING EXHIBIT

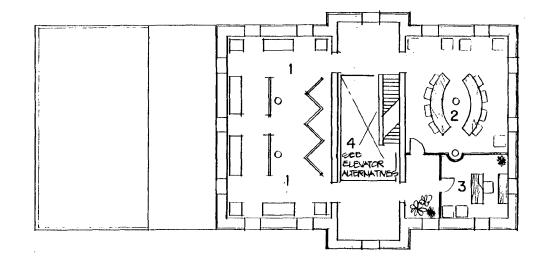
2 ELEVATOR

SECOND LEVEL



- ROTATING EXHIBIT
- 2 PERMANENT EXHIBIT
- 3 ELEVATOR

THIRD LEVEL



- PERMANENT EXHIBIT
- 2 CONFERENCE
- 3 OFFICE
- 4 ELEVATOR

FOURTH LEVEL

Level		2	3	4	5	Total
<u>Function</u>						
Permanent Exhibition			738	738		1476
Rotating Exhibition		1476	738			2214
Conferences/ Meetings	· •			583		538
Curator's Office				200		200
Lecture/ A/V	. 738					738
Restrooms/ Mech.	738					738
Storage					1632	1632
Elevator	60	60	60	60	60	300
Circulation/ Structure	456	456 ——	456 ——	456	300	2124
TOTAL	1992	1992	1992	1992	1992	9960

Elevator Alternatives

The proposed change of the Lighthouse Supply Depot Building from use as a storage facility to use as a display and public meeting place changes the building to an A3 use group. Two fire rated, 44" wide, stairs independently enclosed are necessary to meet egress requirements. Only one 36" wide stair with no separation between floor areas presently exists. To accommodate handicapped and elderly, an elevator must be provided. Four alternatives demonstrating how this can be achieved are:

Alternative A

This is the recommended approach. All stairs and the elevator fit within a central core and do not effect the exterior of the building or the brick arched doors on each level. It does, however, entail the removal of the existing stone stair. Replacing these stairs are two new independent fire rated 44" wide stairs in a wrapped scissor configuration. Fire doors are accommodated on landings and need not be added to the existing brick arched doors. The elevator fits in the remaining space.

In preliminary discussions with representatives of the City of Detroit's Building Safety and Engineering Department and Historical Designation Advisory Board, this alternative was preferred since it meets (at this initial level) safety and egress requirements and, historically, impacts the structure the least.

Alternative B

The existing stair is maintained with a new 44" wide stair added adjacent to it but running in the opposite direction, forming a scissor type configuration. Fire doors are added to the arched doors leading into the two bays on each floor. This negatively impacts the historic nature of the doors by greatly changing their appearance. The elevator is added outside the building between the Supply building and the E.S.A. building in a tower connected at each level to the Supply building. A bridge connects the elevator to the E.S.A. building at the second level, providing for barrier-free access to both buildings.

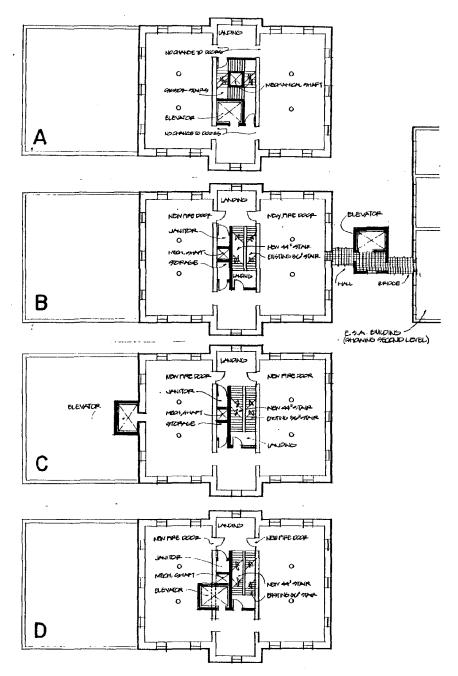
This alternative is not recommended since the ensuing visual impacts both inside and out would not be acceptable.

Alternative C

This alternative has the same stair configuration as Alternative "B". The elevator, however, is added to the west side of the building. This location is less apparent and there is not as much construction as in Alternative "A". However, it is still undesirable due to the exterior and interior impacts.

Alternative D

This alternative has the same scissor stair configuration as Alternatives "B" & "C" except that the elevator is inserted adjacent to the stair. Although this is more desirable than either "B" or "C", the impact of the elevator and the addition of the fire doors to the existing brick arched doors would be undesirable.

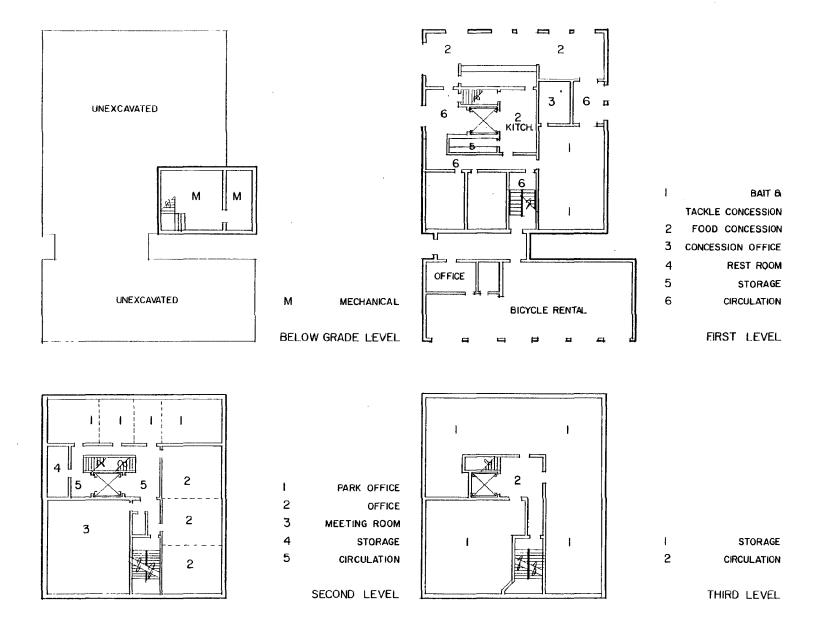


Engineering Services Activity Building Program

The E.S.A. Building is the second most dominant building in the Interpretive Center Complex. It is programmed to accommodate concession and office functions due to its location in relationship to all other functions. This proximity allows for easy access by Park and Interpretive Center users, as well as surveillance of the grounds and buildings.

The following program outline was arrived at based on the projected needs of the park and Interpretive Center users and fits within the context of active spaces delineated in the proposed land use configuration.

Function	Base- ment		2	3	Total
	morre	•	-	J	,0,0,
Bait & Tackle		720			720
Concession Bait & Tackle		720			120
Office		100			100
Food Concession		816			816
Kitchen		360			360
Park Office			725		725
Rented Office			755		755
Meeting Room			675		675
Restrooms		450			450
Mechanical	480				480
Circulation		500	679	500	1679
Elevator		120	120	120	260
(freight)		120	112	120 2446	360 2558
Storage			112	Z440	2556
Total	480	3066	3066	3066	9678



Aids to Navigation Building Program

The Aids to Navigation Building, attached to the Lighthouse Supply Depot, is proposed to be leased from the City as a restaurant by a private enterprise. This use is considered due to the building's size, the existing twostory crane area, and the potential of additional restaurant seating space on the roof as an open air cafe or a glass enclosed din-The views are ideal from this ing room. vantage point as it overlooks Coast Guard operations, the Detroit River, Belle Isle and the proposed plaza. A restaurant developed in this area is seen as an opportunity to serve the proposed housing and the influx of visitors to the Park and Interpretive Center. No restaurant currently exists in the East Riverfront area east of Jos. Campau.

This, however, is seen as a long-range action since no restauranteurs have been approached or have expressed interest. In the short range, it could remain in use by the Coast Guard or as storage space.

Function	Level 1	Level 2 (roof)	Total
Leasable space	1275		1275
Roof area (expansion)		825	825
Total			2100

Exchange Building Program

The Exchange Building is programmed as a single use building for the rental of bicycles. The building was originally a sixbay garage and if the garage doors were reopened and fenced, it would become ideal for a well-supervised rental structure. It is planned to work in conjunction with the bike route currently being implemented in this area. Since the bicycle route is currently only for holidays and weekend use, the rental station is seen as a future development. Initially the building may be used for storage or retained by the Coast Guard.

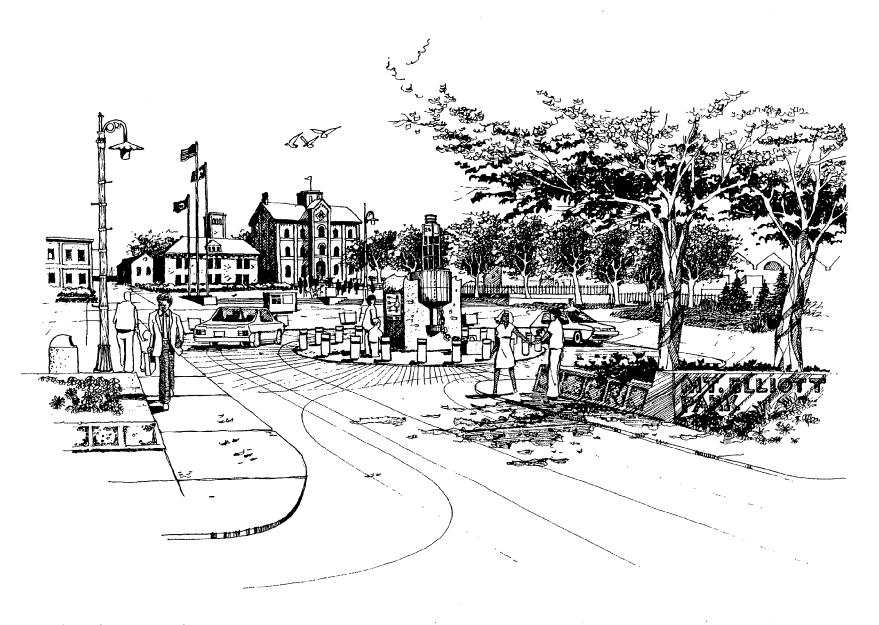
Function	Area
Bike Storage Rental Office	950 150
Total	1100

INTERPRETIVE BOUY

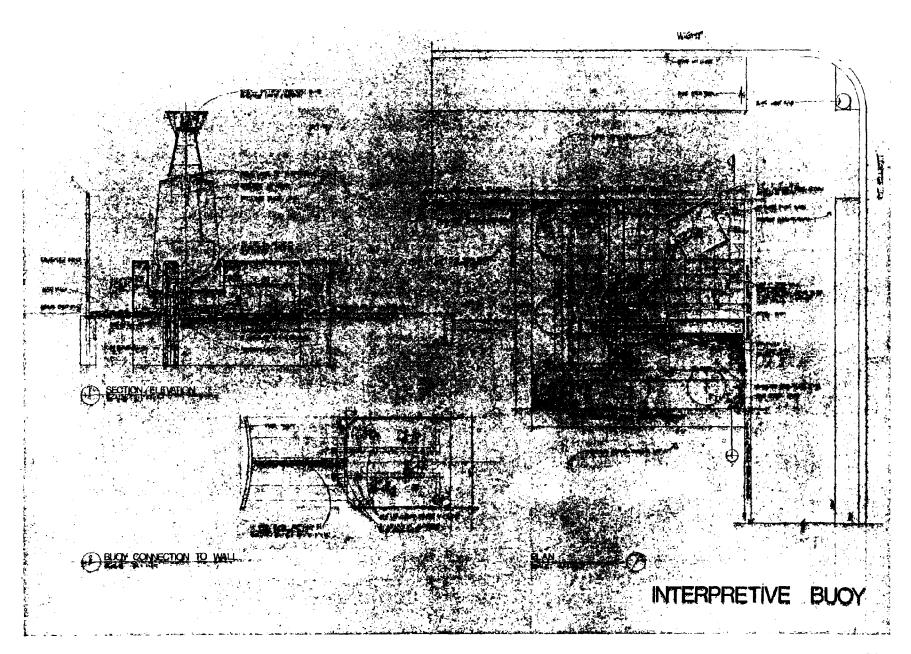
The intent of this project was not only to be a planning document, but to begin implementation of the overall project in some way. Working with the interpretive theme of the center and park, the proposed site plan for the entrance plaza, and current land uses, a monument to Great Lakes history was conceived. The location is the southwest corner of Mt. Elliott and Wight Streets on the edge of the Coast Guard parking lot. This location will fall in the center of the proposed entrance plaza circular drive.

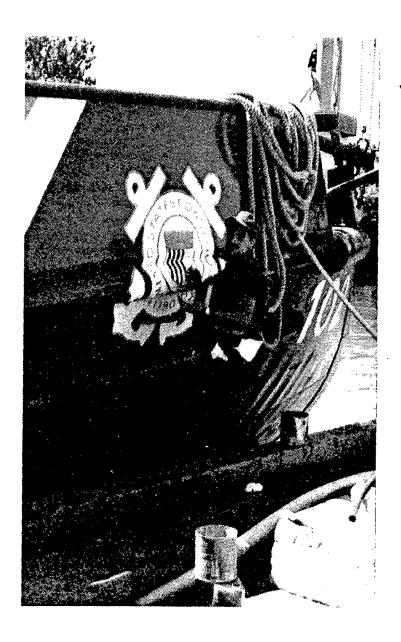
The Coast Guard has designated for donation an obsolete, riveted, Great Lakes buoy. This buoy, circa 1900, was a marker buoy that simply protruded from the water. Similar buoys were fitted with a light, belt, or gong cages, and were anchored as navigation devices. Buoys similar to that donated are still used, but have welded seams, and often vary in shape.

The buoy is proposed to be lifted by the Coast Guard onto a simple foundation constructed by the City of Detroit, Recreation Department. It will be fitted with an anchor and light cage. This light cage will hold a battery-operated, flashing blue light. The foundation will bear graphics that relate information about buoys, navigation, and the Coast Guard.



The placement of the Interpretive Buoy will be in the drop-off circle, which is currently the southwest corner of Mt. Elliot & Wight Streets on the existing Coast Guard parking lot.





IMPLEMENTATION

The implementation strategy for the adaptive reuse of the Coast Guard Station and the construction of Mt. Elliott Park involves a close coordination of public improvements with private development on adjacent parcels. This is due to the fact that the proposed public improvements, such as the Mt. Elliott Entry Plaza or the parking structure, will directly enhance public/private development The coordination of phasing and funding is crucial to the total development of the area.

This chapter involves four major considerations:

- A detailed construction estimate of the three Land Use and Circulation Alternatives which facilitates evaluation of public sector development in a total development package for this area.
- The recommended site plan is broken down into implementation phases along with an estimated cost of construction for each phase. Special attention is given to actions that could be undertaken immediately with minimal cost to help stimulate further development.
- Sources of funding for the various developments are reviewed in light of the current changes, adjustments, and the elimination or curtailing of certain funding sources.

4. Costs of operating and maintaining the Interpretive Center are presented since developmental costs do not alone fully represent the total cost of the Center.

CONSTRUCTION ESTIMATES

Construction estimates are presented for each of the three Land Use Alternatives. Each Alternative is divided into four development zones.

A. Mt. Elliott Entry

This zone includes the mini-park at the intersection of Jefferson and Mt. Elliott, and improvements along Mt. Elliott Street to Wight Street.

B. Entry Plaza

This is the central plaza of the Mt. Elliott development node and is a large public space for use by those visiting the Interpretive Center, the Mt. Elliott Park, and as an entrance plaza to proposed housing and commercial development at the American Natural Resources and the City-owned Uniroyal parcels.

C. Mt. Elliott Park

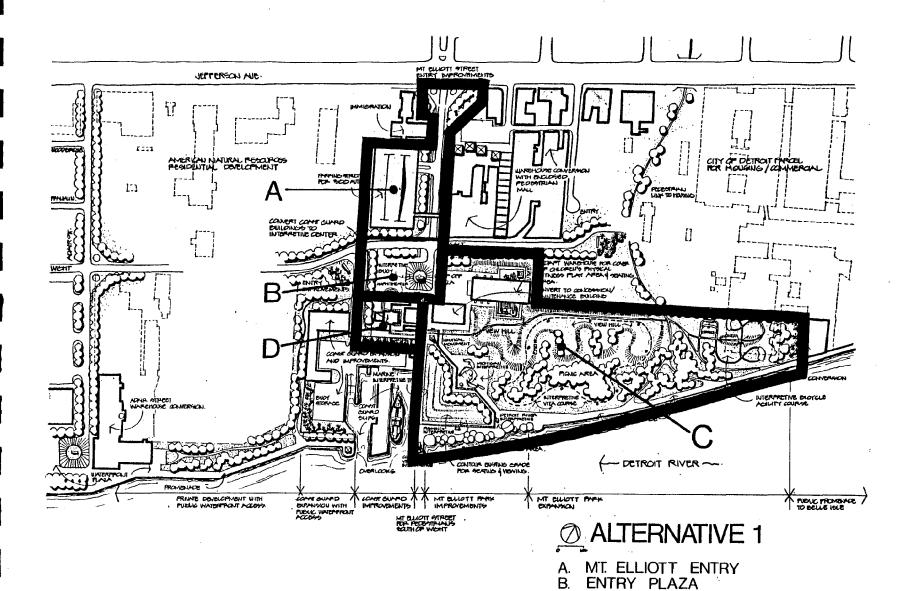
This zone includes park improvements extending from the river to Wight Street and from Mt. Elliott Street to the Uniroyal site.

D. Interpretive Center

This zone includes the buildings and immediate land proposed for development as the Interpretive Center.

All estimates assume the following:

- That all land necessary for development is already acquired, proposed to be acquired through land trades, or is to be purchased prior to development, and that no additional land acquisition costs will be incurred.
- Development costs of the Mt. Elliott Park extension onto the City of Detroit Uniroyal Parcel presumes the land is cleared of paving, structures and debris.
- That preliminary construction estimates were prepared as of 1981 and escalation factors must be applied to phased construction.



MT. ELLIOTT PARK INTERPRETIVE CENTER

Alternative One Cost Estimate

Α,	Mt.	Elliott	Entry	Improvement	ts
----	-----	---------	-------	-------------	----

1. Site Preparation -

(a) U	emolition of:		
_	walks where needed	5500 sf	3000
-	vegetation removal	ls	2000

- berm at entry	_			
Jefferson		200	су	1000
Site Preparation	Sub-Total		\$	6,000

2. Site Drainage and Utilities

(a) !	Drainage			
-	- catch basins (renovation)		ls	3000
	– catch basins (new)		ls	2000
-	- drainage piping	100	ΙF	4000

(b) Utilities

- Electric			
- bury electric & phone			
wires	1100	ft	55000
- street lighting (150' oc)	7		14000
- minipark lights at			
Jefferson	4		4000
- misc. light			2000
- Water			
 drinking fountain 	1		1500
- hose bibs	2		700
- piping	150	lf	3000
 Irrigation System 		ls	6000
Site Draining and Utilities			
Sub-Total		\$9	95,200

3. Structures

(a) Bus shelter at Jefferso	n ł		15000
(b) 300 car, 3-level parking deck			900000
(c) Pedestrian bridge to warehouse conversion	า	ls /	15000
•			
Structures Sub-Total			\$930,000
4. Site Improvements			
(a) Grading topsoil hydro- seed	5000	sf	7500
(b) Concrete planter, walls	s	ls	5000
(c) Paving - walks - bike path - road re-surfacing (asphalt)	9000 5000 21000	sf sf sf	27000 5000 21000
 (d) Site furnishings entry sign at Jefferson bollards benches waste receptacles signage 	50 10 10	ls Is	5000 30000 6000 3000 1500
(e) Landscaping - evergreen trees - deciduous trees - ornamental trees - shrubs	15 30 5 20		4500 12000 1000 1000
Site Improvements Sub-Total			\$129,500

1. Site Preparation	B. Entry Plaza			
- rail tracks along Wight Street	I. Site Preparation			
Wight Street 200 If 3000 - Wight Street 6000 sf 5000 - fences 80 If 1600 - walls/retaining 1s 4000 - scrub growth 1s 1500 - misc., oil tanks, debris 1s 1500 - remove paving/parking lot 1s 1500 - remove paving/parking lot 24000 (b) Fill & Contouring lot 200 cy 1000 Site Preparation Sub-Total \$31,600 2. Site Draining & Utilities 4000 (a) Drainage lot 2 4000 - catch basins lot 2 4000 - piping 300 1f 7500 (b) Utilities 2 4000 - Electric lot 2 4000 - pedestrian lighting lot 4 6000 - misc. spots & signs 1s 5000 - Water lose bibs lot 2 700 - piping lot 350 1f 7000 - drinking fountain lot 1 1500 - Irrigation System 1s 4000	, - ,			
- Wight Street 6000 sf 5000 - fences 80 lf 1600 - walls/retaining ls 4000 - scrub growth ls 1500 - misc., oil tanks,		200	l f	3000
- fences - walls/retaining - scrub growth - misc., oil tanks, debris - remove paving/parking lot - berm at west edge - catch basins - piping - drop-off lighting - drinking fountain - box at the street of				
- scrub growth - misc., oil tanks, debris - remove paving/parking lot - structure paving/parking lot - berm at west edge - berm at west edge - catch basins - piping - brilities - Electric - pedestrian lighting - drop-off lighting - misc. spots & signs - water - hose bibs - piping - drinking fountain - lighting & lighting - drinking fountain - lighting - drinking fountain - lighting		80	lf	
- misc., oil tanks,	walls/retaining		ls	4000
debris			ls	1500
- remove paving/parking lot 55000 sf 24000 (b) Fill & Contouring - berm at west edge 200 cy 1000 Site Preparation Sub-Total \$31,600 2. Site Draining & Utilities (a) Drainage - catch basins 2 4000 - piping 300 lf 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs ls 5000 - Water - hose bibs 2 700 - piping 350 lf 7000 - drinking fountain 1 1500 Elrrigation System Is 4000			1	1500
lot		.	15	1300
- berm at west edge 200 cy 1000 Site Preparation Sub-Total \$31,600 2. Site Draining & Utilities (a) Drainage - catch basins 2 4000 - piping 300 lf 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs ls 5000 - Water - hose bibs 2 700 - piping 350 lf 7000 - drinking fountain 1 1500 - Irrigation System Is 4000	· · · · · · · · · · · · · · · · · · ·		sf	24000
- berm at west edge 200 cy 1000 Site Preparation Sub-Total \$31,600 2. Site Draining & Utilities (a) Drainage - catch basins 2 4000 - piping 300 lf 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs ls 5000 - Water - hose bibs 2 700 - piping 350 lf 7000 - drinking fountain 1 1500 - Irrigation System Is 4000	(b) Fill & Contouring			
Site Preparation Sub-Total \$31,600 2. Site Draining & Utilities (a) Drainage - catch basins 2 4000 - piping 300 If 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000		200	су	1000
2. Site Draining & Utilities (a) Drainage - catch basins 2 4000 - piping 300 If 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 - Irrigation System Is 4000				
(a) Drainage - catch basins 2 4000 - piping 300 If 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 - Irrigation System Is 4000	Site Preparation Sub-To	tal	\$	31,600
- catch basins 2 4000 - piping 300 If 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000	2. Site Draining & Utilities	5		
- piping 300 lf 7500 (b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 lf 7000 - drinking fountain I 1500 - Irrigation System Is 4000	(a) Drainage			
(b) Utilities - Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities		_		4000
- Electric - pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 - Irrigation System Is 4000 Site Draining & Utilities	– piping	300	۱f	7500
- pedestrian lighting 8 12000 - drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000	(b) Utilities			
- drop-off lighting 4 6000 - misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities				
- misc. spots & signs Is 5000 - Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities				
- Water - hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities		4	l a	
- hose bibs 2 700 - piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities			15	5000
- piping 350 If 7000 - drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities		2		700
- drinking fountain I 1500 = Irrigation System Is 4000 Site Draining & Utilities		_	l F	
Site Draining & Utilities	· · · · ·		• •	
Site Draining & Utilities	_		ls	4000
	5 Trigation System		1.5	
	Site Draining & Utilities	5		
	_		\$	47,70 0

Structures			
– bus shelter	į		15000
Site Improvements			
Grading, topsoil, hydroseed	300	sy	450
Paving - plaza special paving - vehicular drop-off - walks - bike path - Wight Street	10000 2000 1500	sf sf sf	144000 50000 6000 1500 75000
	15 10 2500 50	ls sf	9000 3000 2000 40000 30000
Landscaping - deciduous trees - ornamental trees - shrubs	10 5 20		4000 1000 1000
Site Improvements Sub-T	otal		\$371,950
	- bus shelter Site Improvements Grading, topsoil, hydroseed Paving - plaza special paving - vehicular drop-off - walks - bike path - Wight Street Site Furnishings - seating - waste receptacles - signage - amphitheater - bollards - entry sign - Mt. Elliott Park Landscaping - deciduous trees - ornamental trees - shrubs	- bus shelter 1 Site Improvements Grading, topsoil, hydroseed 300 Paving	- bus shelter 1 Site Improvements Grading, topsoil, hydroseed 300 sy Paving - plaza special paving 12000 sf - vehicular drop-off 10000 sf - walks 2000 sf - bike path 1500 sf - Wight Street 7500 sf Site Furnishings - seating 15 - waste receptacles 10 - signage 1s - amphitheater 2500 sf - bollards 50 - entry sign - Mt. Elliott Park Is Landscaping - deciduous trees 10 - ornamental trees 5 - shrubs 20

С.	Mt. Elliott Park Improvemen	its		(b)	Utilities (cont.)			
1.	Site Preparation				- <u>Water</u> - piping	2000	l f	40000
(a)	Demolition of:				drinking fountainhose bibs	2		3000
	- concrete block	_	100000					
	bldg. on east 20000 (two levels)	sf	100000		- Irrigation System			90000
	- partial Re-Steel building 21000	sf	105000					
	- strip site of	51	103000		Site Draining & Utili	ties Tot	al	\$293,000
	paving/gravel 340000	sf	75000					
	- fencing 2000) I f	4000	3.	Structures			
	- scrub growth	ls	5000	, 3.	ori detai es			
	- misc. poles, walls,		0000	(a)	Re-Steel Renovation			
	bumbers, debris	ls	10000	, (0,				15000
	- Mt. Elliott Street				- repair structure		Is	15000
	south of Wight 20000	sf	8800	•	- translucent fibergi		a f	105000
16.	Fill and Cantagoning			•	roof – electric	21000	sf Is	63000
(0)	Fill and Contouring - view hill 80000	C1/	320000		- paint		ls	30000
	- contoured seating	cy Is			·		13	. 30000
	- berms 1500	cy	6000	(ь)	Service Building			
	- topsoil 1300	cy	13000		- storage facilities	6000	sf	150000
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- ,			- restrooms	1000	sf	20000
	Site Preparation Total		\$656,800		- concessions	8000	sf	200000
	•		4,		- offices	4000	sf	40000
2	Cita Duninina and Hillitian				- garage	1000	sf	5000
2.	Site Draining and Utilities				1			
(a)	Drainage							
(4)	- catch basins 6		12000		Structures Total			\$628,000
	- piping 2000	1 f						
	- misc. drains (sea-		,	4.	Site Improvements			
	wall, trenches, etc.)	ls	5000		•			
(5.)	Utilities			(a)	Grading topsoil	85000	sf	127500
(Ь)	- Electric							
	- lighting 4		8000	(ь)	Paving			
	- pedestrian lighting 50		75000		– concrete walks	17000	sf	51000
	- misc. lighting		10000		- promenade	30000	sf	90000
	(bollards, step,				- plaza special			
	sign)	İs	10000		paving/seating/	20000	_ £	226000
	91 9 111	, ,	, 5500		play area	28000	sf	336000

(P)	Paving (cont.)			
	 bike path asphalt (not inc. agility course) 	7500	sf	7500
(c)	Site Furnishings			
	Marine Interpretive - Michigan relief - seven signs - course marking	22500 7 1500	sf If	337500 7000 7500
	Jogging Course 10 stations		ls	4000
	Bicycle Agility Cours	e	Is	9000
	Nautical Monument		ls	15000
	Children's Physical Fitness Play Area		Is	7000
	Seating	50		30000
	Waste receptacles	30		9000
	Signage		Is	1500
	Game Tables	.5		1000
	View Scopes	3		600
(d)	Landscaping			
	evergreen treesdeciduous treesornamental treesshrubs	80 100 20 150		24000 40000 4000 7500
	Site Improvement Total	al	- \$1	,116,600

(a)	Existing sheet pile - handrail safety ladder	1100	ft	44000
(b)	New sheet pile (curved design) - sheet pile/tie back	s/		
	drainage	500	ft	500000
	- concrete cap	500	ft	115000
	- backfill	7000	су	35000
	- handrail/safety ladder/handi-	500	£.	20000
	capped fishing	500	ft	20000
(c)	Drainage structures Headwall at Mt.			
	Elliott		İs	50000

5. Seawall - Fishing Bulkhead

Total Seawall & Fishing Bulkhead

\$764,000

b. Interpretive center	D.	Interpret	ive (Center
------------------------	----	-----------	-------	--------

I. Site Preparation

1.	Site Freparation			
(a)	Demolition of: - misc. retaining walls, oil tanks, debris, etc.		Is	6000
	 paving around bldgs. 	15000	sf	65000
(b)	Fill & Contouring - berm at west edge - berm around south	200	су	1000
	side of Supply Bldg.	200	су	1000
	Site Preparation Sub-	Total		\$73,000
2.	Site Draining and Uti	lities		
(a)	Draining - catch basin - piping/connections	1 150	l f	2000 3600
(b)	Utilities - Electric - service - pedestrian lighting	4	ls	2000 8000
	flood lightingspots & signs	4	ls	8000 5000
	Water serviceGas servicePhone serviceIrrigation system	150 150 150	lf If If	2000 1000 1000 2000
	Site Draining and Uti Sub-Total	ilities		\$34,600

3. Structures

Coast guard Conversion Construction Estimate

(a) Interpretive Center (Supply Building)

Exterior			
- strip paint	1500	sf	750
- tuck point & clean			
brick		ls	4000
- repair and paint			
windows	60	ea.	2000
 remove elevator 			
tower		ls	1900
- repair slate roof &			
patch elevator hol		ls	5000
- remove lights, bask	et~		500
ball, signs, etc.		İs	500
- waterproof	~		
where replaced bed	700	sf	350
- paint all trim	700	51	330
(except copper)		Is	1500
•		15	1500
Internal			
 remove freight eleva 	ator	ls	5000
- remove stairs		ls	500
- remove partitions &		-	1500
drop ceilings	1500	sf	1500
- paint all metal and		1 -	2000
wood surfaces		ls	3000
 clean all brick surfaces 	4000	sf	2000
- elevator	4000	Is	50000
- gas hot water base		13	30000
heat		ls	40000
- new electric service	•	ls	24000
- new scissor fire		, ,	
stairs	140 s	teps	7000
- insulation in attic	3000	sf	2000
- plumbing to first			
level		Is	7000

(a) Interpretive Center (cont.)

First Level		_	
- restrooms	738	sf	10000
 lecture room 	738	sf	6000
- corridors	516	sf	1500
Second & Third Level			
- corridors	1032	sf	2000
- display areas	2952	sf	10000
Fourth Level			
- conference room	538	sf	2500
- office space	200	sf	2000
- corridors	516	sf	1000
- display space	738	sf	2500

(b) Concession/Office Building (ESA Building)

\$195,500

Interpretive Center Sub-Total

Exterior			
- strip paint		ls	500
- tuck point & clean br	ick	ls	500
 repair and paint 			
windows	50	ea.	1600
- remove lights, signs,			
etc.		ls	500
- paint trim		ls	1500
- repair roof (if req.)		ls	5000
 open door on east 		Is	450
- open windows on north	1		
for concession			
counter	5	ea.	1000
- close garage doors			
on west	2	ea.	1500
 remove breezeway to 			
Exchange	250	sf	1250

(b) Concession/Office Building (cont.)

	_		
General			
- remove unnecessary			
partitions & dropp	ed		
ceilings		İs	5000
 gas hot water heat 			
throughout		ls	30000
– new fire stair	40	steps	5000
- repair & check			
plumbing			1500
First Level			
- paint & tackle			
concession	720		6500
 food concession 	1176		15000
 concession office 	100	1000	1000
- restrooms	450		5400
- circulation	620		1860
Second Level			
- park office	725	sf	6500
- rental office	755	sf	6800
- meeting room	675	sf	6000
- storage -	112	sf	500
circulation	820	sf	3000
Third Level			
- storage	2416	sf	3000
- circulation	620	sf	2000
ESA Building Sub-Tota	1		\$112,860
) Bike Rental (Garage)			

(c)

By concessionaire

1515@ 27 = 40000

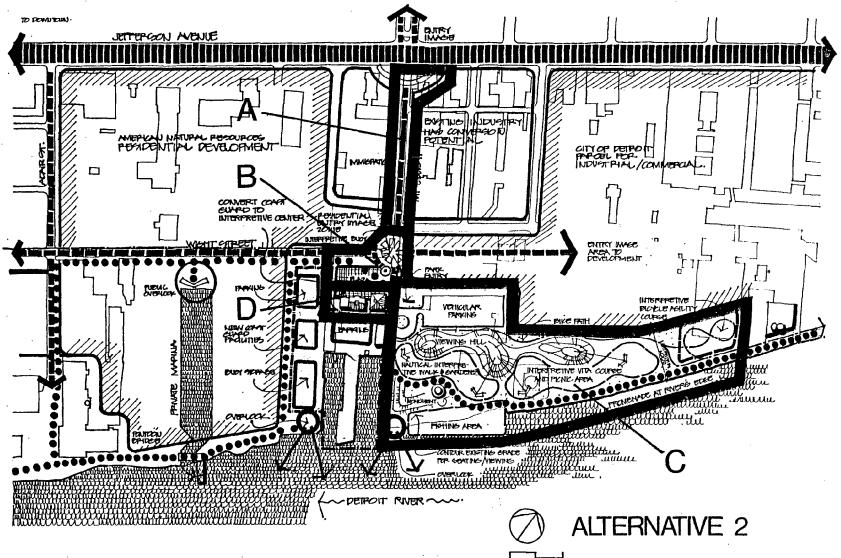
(d) Restaurant (A to N Building)

By developer

	by developer			
	- one level - - two levels (roof de	eck)		65000 120000
	Structures Sub-Total			\$308,360
4.	Site Improvements			
(a)	Grading, topsoil, lav	vn 750	су	1125
(ь)	Paving - plaza special paving - walks - bike path	3000 7000 1500	sf sf sf	14000
(c)	Site furnishing - seating - waste receptacles - signage	8 4	Is	4800 1200 1500
(d)	Landscaping - deciduous trees - ornamental trees - shrubs	5 10 20		2000 2000 1000
	Site Improvements Su	b-Total		\$65,125

Alternative One Cost Estimate Summary

		Site Preparation	Site Drainage and Utilities	Structures	Site Improvements	Shoreli Stabi	
Α.	Mt. Elliott Entry and Parking Structure	6,000	95,200	930,000	129,500	-0-	1,160,700
в.	Entry Plaza and Wight Street Relocation	31,600	47,700	15,000	371,950	-0-	466, 250
С.	Mt. Elliott Park and Shoreline Stabilization	656,800	293,000	628,000	1,116,600	764,000	3,458,400
D.	Interpretive Center and		,				
	Adjacent Site	73,000	34,600	308, 360	65,125	-0-	481,085
				Total (Construction		5,566,435
				(Contingency		1,133,565
			· ·		Sub-Total		6,700,000
					A/E Fees		670,000
					Total		7,370,000



- MT. ELLIOTT ENTRY
- ENTRY PLAZA
- MT. ELLIOTT PARK
- INTERPRETIVE CENTER

Alternative Two Cost Estimate

- A. Mt. Elliott Entry Improvements
- 1. Site Preparation
- (a) Land acquisition
- (b) Demolition of:
 walks (where
 needed) 5500 sf 3000
 vegetation removal Is 2000
- (c) Fill and contouring
 berm at entry at
 Jefferson 200 cy 1000
 ---Site Preparation Sub-Total \$6,000
- 2. Site Drainage and Utilities
- (a) Drainage
 catch basins
 (renovation) | s | 3000
 catch basins (new) | s | 2000
 drainage piping | 100 | If | 4000
- (b) Utilities - Electric - bury electric & phone lines 1100 ft 55000 - street lighting 8000 (150' o.c.) 4 - minipark lights at 4000 Jefferson - misc. lights 2000 (bollards, signage) Is - Water 1500 - meter pit ls 2 700 - hose bibs 150 ft 6000 piping

\$86,200

Site Draining & Utilities
Sub-Total

- 3. Structures
- (a) Bus shelter at

 Jefferson | \$15,000
- 4. Site Improvements
- (a) Spading, topsoil, 7500 5000 sy lawn area 5000 ۱s (b) Concrete planter box (c) Paving 27000 9000 sf - walks 5000 5000 sf - bike path - road resurfacing 21000 21000 sf (asphalt)
- (d) Site furnishings - entry sign at 5000 İs Jefferson 30000 50 - bollards 6000 10 benches 3000 10 - waste receptacles 1500 ls - signage
- (e) Landscaping
 evergreen trees 15 4500
 deciduous trees 30 12000
 ornamental trees 5 1000
 shrubs 20 1000
 - Site Improvements Sub-Total \$129,500

В.	Entry Plaza			
1.	Site Preparation			
(a)	Demolition of: - fences - walls/retaining - scrub growth - misc., oil tanks,	800	lf Is Is	1600 4000 1500
	debris - remove paving/ parking lot	55000	ls sf	1500
(ь)	Fill and contouring - berm at west edge - topsoil	200	cy Is	1000
	Site Preparation Sub-	Total	:	\$(34,100
2.	Site Drainage and Ut	ilities		
(a)	Drainage - catch basins - piping	2 300	lf	4000 7500
(b)	Utilities - Electric - pedestrian lighting - drop-off lights - misc. spots & signs	4	Is	12000 6000 5000
	Waterhose bibspipingdrinking fountain	2 350 I	lf	700 7000 1500
	- Irrigation System		ls	4000
78	Site Drainage & Utili Sub-Total	ties	:	\$47,700

3. Structures			
- bus shelter	1		\$15,000
4. Site Improvements			
(a) Grading, topsoil, lawn	300	sy	450
(b) Paving - plaza special			
paving	3000		60000
- walks	1000	sf	3000
- bike path	1500	sf	1500
(c) Site Furnishings			
- seating	8		4800
 waste receptacles 	4		1200
- signage		ls	1500
- amphitheater	2500	sf	40000
- bollards	50		30000
– entry sign at Mt. Elliott Park		ls	5000
(d) Landscaping			
- deciduous trees	10		4000
 ornamental trees 	5		1000
- shrubs	20		1000

Site Improvements Sub-Total

\$153,450

c.	Mt. Elliott Park Improvemen	(ь)	Utiliti		
١.	Site Preparation				- Elec
	over the paration				- ped
(a)	Demolition of:				- mise
	concrete block bldg.on west 21000	sf	105000		(b sig
	(two levels)	31	103000		
	 concrete block bldg. 				- Wate
	on east 20000	sf	100000		- drir
	(two levels) - Re-Steel Bldg. 21000	sf	105000		- hose
	- strip site of	31	103000		
	paving/gravel 200000	sf	50000		- Irri
	- Mt. Elliott Street		2000	•	
	south of Wight 20000 - fencing 1200	sf If	8800 2400		Site D
	- scrub growth	İs	3000		
	- misc. poles, walls,				
	bumbers, debris	ls	8000	3.	Struct
(ь)	Fill and contouring			(a)	Comfor
, - ,	- view hill 40000	су	160000	\-,	shelte
	 contoured seating 	İs	10000		stru
	- berms 1500	су	6000		
	- topsoil 800	су	800		
	Site Preparation Total		\$559,000	4.	Site I
	Site Preparation Total		\$559,000	(a)	Final
2.	Site Drainage and Utilities			(4)	hyd
۷.	Site brainage and utilities			(b)	Paving
(a)	Drainage				- cond
	- catch basins 4		8000		- pror
	- piping 2000 - misc. drains (sea-	۱f	50000		- bike
	wall, tench, etc)	Is	5000		CHOI
	···, ····,	_			- dror

(b)	Utilities - Electric - lighting - pedestrian lights - misc. lighting (bollards, step, sign)	4 40	Is	8000 60000
	Waterpipingdrinking fountainhose bibs	2000	۱f	40000 3000
	- Irrigation System		ls	60000
	Site Drainage & Util Sub-Total	ities		\$244,000
3.	Structures			
(a)	Comfort station and shelter (new structure)	1200	sf	72000
4.	Site Improvements			
(a)	Final grading, hydroseed	45000	sy	67000
(b)	Paving - concrete walks - promenade - bike path (asphal) (not inc. agility course) - drop-off circle	17000 30000 t) 7500 10000	sf sf sf	51000 90000 7500 30000
	- 70 car parking	21000	sf	63000

4.	Site Improvements (cont.)		
(c)	Site furnishing			
	Marine Interpretive - Michigan relief - seven signs - course marking	27500 7 1000	sf	337500 7000 7500
	Jogging Course 8 Stations		ls	3200
	Bicycle Agility Cour	se	ls	7000
	Nautical Monument		ls	15000
	Seating	50		30000
	Waste receptacles	30		9000
	Signage		ls	1500
	View scopes	3		600
(d)	Landscaping			
	- evergreen trees	60		18000
	- deciduous trees	80		32000
	- ornamental trees	20		4000
	- shrubs	100		5000

5. Seawall & Fishing Bulkhead

Site Improvement Total

(a) Existing sheet pile - handrail safety ladder 1100 ft 44000

\$785,800

(b)	- concrete cap 500	ft 500000 ft 115000 cy 35000
(c)	Drainage structures headwall at Mt. Elliott	Is 50000
	Total Seawall & Fishing Bukhead	\$764,000
D.	Interpretive Center (See Alt.	One)
	I. Site Preparation	\$ 73,000
	2. Site Drainage & Utilities	\$ 34,600
	3. Structures	\$308,360

\$ 65,125

4. Site Improvements

Alternative Two

		Site Preparation	Site Drainage and Utilities	Structures	Site Improvements	Shoreline Stab.	Total
Α.	Mt. Elliott Entry and Parking Structure	6,000	86, 200	15,000	129,500	-0-	236,700
В.	Entry Plaza and Wight Street Relocation	34, 100	47,700	15,000	153, 345	-0-	250, 145
c.	Mt. Elliott Park and Shoreline Stabilization	559,000	244,000	72,000	785,800	764,000	2,180,800
D.	Interpretive Center and Adjacent Site	73,000	34,600	308, 360	65,125	-0-	481,085
					Construction		3,148,730
				Contin	sgency (20%) Sub-Total		3,780,000
				A/E	E Fees (10%)		378,000
					Total		\$4,158,000

PHASING

The overall implementation plan can be considered in three basic phases with a certain amount of activity occurring immediately at minimal cost. Cost estimates are presented for each phase.

Immediate Action

Immediate actions are intended to quickly and efficiently provide a small green space at the river's edge to promote the positive aspects and awareness of the area, and to act as a catalyst for its total development. The immediate actions include closing Mt. Elliott Street south of Wight and creating a green space on Mt. Elliott Park with a stabilized shoreline. This is possible since the land is currently city-owned. Also the area for the mini-park at Jefferson is cleared and the interpretive buoy is installed at Wight and Mt. Elliott.

Phase One

Phase One includes the improvement of Mt. Elliott Street, the Coast Guard land trade, beginning the Interpretive Center construction, and building the Mt. Elliott Park up to the edge of Uniroyal. Private developments occurring include the beginning of the American Natural Resources Development and the construction of the expanded Coast Guard facilities.

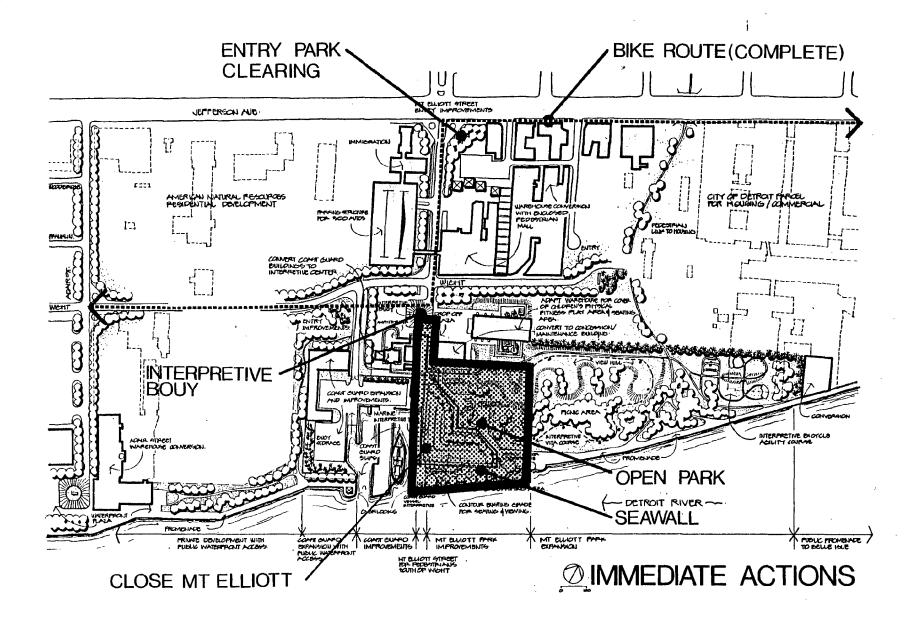
Phase Two

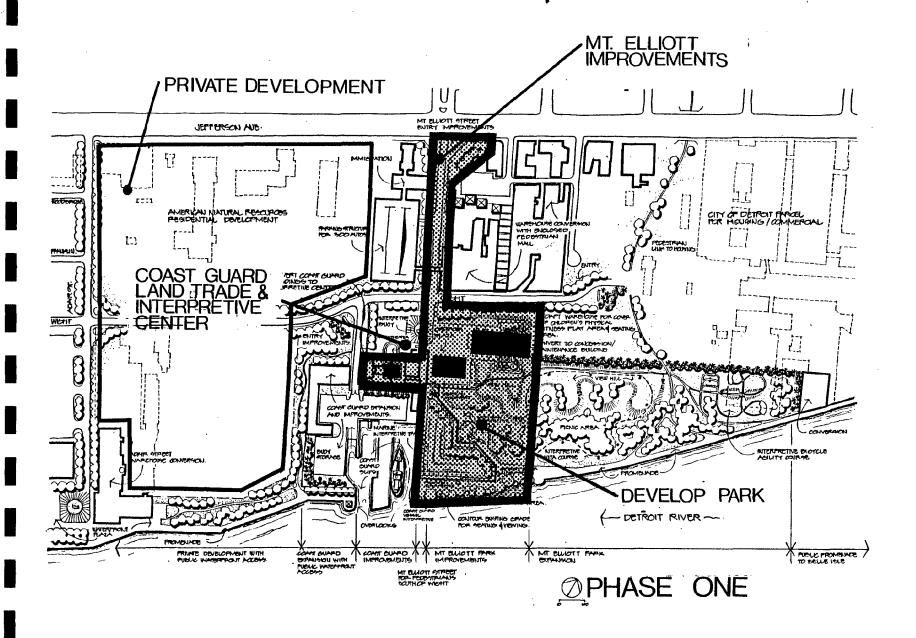
Phase Two includes the adaptive reuse of the E.S.A. Building for the Interpretive Center concession, the completion of Mt. Elliott Park, and realigning Wight with the development of the Entry Plaza in front of the Interpretive Center. Private development occurring during Phase Two includes the completion of the American Natural Resources Development, the conversion of the industrial buildings north of Wight and east of Mt. Elliott, and the beginning of the City of Detroit Development at Uniroyal.

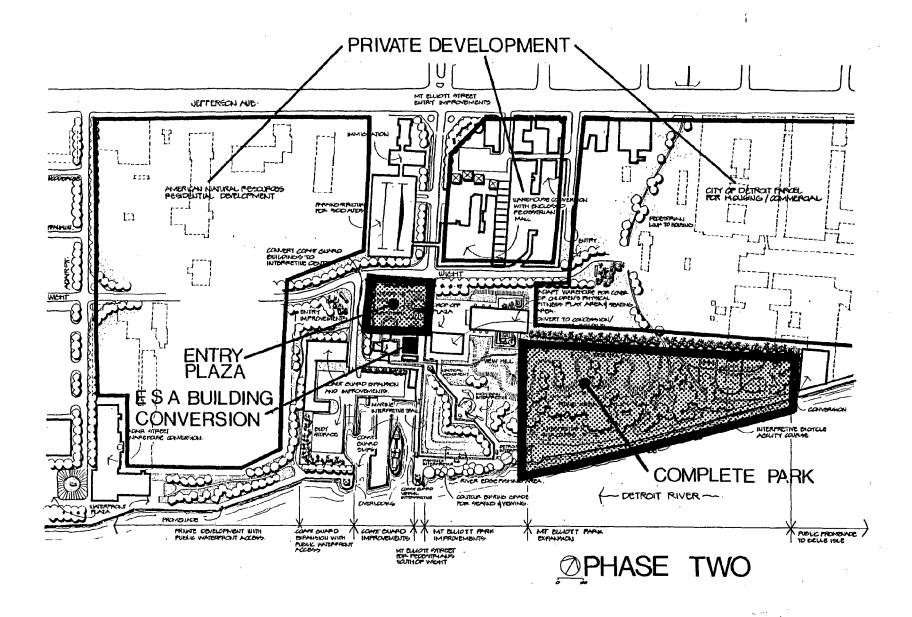
Phase Three

This Phase sees the completion of the Interpretive Center adaptive reuse and the construction of the parking structure. The development of the Uniroyal parcel by the City is also completed in this final phase.

PH	ASING	Immed.	Phase	Phase 	Phase
1	Open minimal Mt. Elliott Park, shoreline stabilization	•			
	Interpretive Buoy	•			
nen	Bike Route Signage (complete)	•			
lopr	Coast Guard Land Trade		•		
Development	Mt. Elliott Entry Park at Jefferson	•			
Public De	Interpretive . Supply Building (museum) Center . ESA Building (concession) . Exchange and A to N Building (concession)				
Pu	Mt. Elliott Park				
	Entry Plaza				
44	Parking Structure				
ivate=	ANR Development				
iva Iopi	Industrial Buildings Conversion				
Pre	City of Detroit Uniroyal Development]			
ă	Coast Guard facilities – expansion and new	ļ			
Ċ	Temporary parking on Mt. Elliott site	•			
rculation	Close Mt. Elliott south of Wight	•			
กา	Realign Wight				
i.	Close Meldrum and Iron				

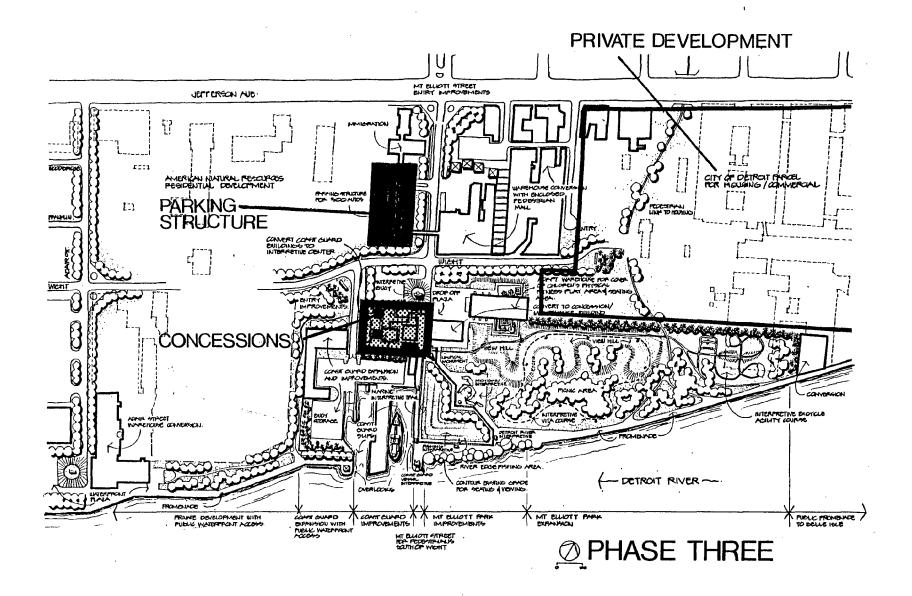






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Phasing Cost Estimate Summary

Immediate Actions			Phase Two		
Mt. Elliott Entry Mini- Park Clearing Interpretive Buoy Close Mt. Elliott South of Wight Open Mt. Elliott Park Shoreline Stabilization	6,000 1,000 -0- 10,000		Interpretive Center (ESA Building) Mt. Elliott Park Entry Plaza and Wight Street	112,860 500,000 465,250	
Shoretine Stabilization	620,000		Sub-Total	1,078,110	
Sub-Total	637,000		Contingency	217,890	
Contingency	129,000		A/E Fees	129,000	
A/E Fees	76,000		Total		1,425,000
Total		842,000	Phase Three		
Phase One			Interpretive Center Concessions	By Others	
Interpretive Center			Parking Structure	930,000	
(Supply Building) and Site Mt. Elliott Park Mt. Elliott Street	368, 225 2, 328, 400		Sub-Total Contingency	930,000	
Improvements and Mini-Park	224,700		A/E Fees	115,000	
Sub-Total			Total		1,247,000
Contingency A/E Fees	2, 921, 325 584, 675 350, 000		Total Construc	ction	\$7,370,000
Total	3,856,000	3,856,000			

FUNDING

The present situation makes projections for funding far more difficult than for previous Assuming the constudies of this nature. tinuation of present national policy for at least three more years, major funding sources such as Land and Water Conservation Fund, Coastal Zone Management, National Endowment for the Arts. Corps of Engineers and Transportation Funds may be drastically cut or completely eliminated as funding sources for this project. Thus reliance must be placed on Community Development Block Grant Funds, which currently have tremendous demands placed upon them, and incentives such as Urban Development Action Grants that may be available to private commercial development.

While cuts are continuing on the state level, transportation funding and projects costs related to adjacent private development, such as housing, might still be sponsored by the Michigan State Housing Development Authority. Additionally, regional involvement by agencies, such as the Huron Clinton Metropolitan Authority, should be investigated for participation in the park.

The major source of funds must, however, come from local sources or, as indicated above, federal sources under local options such as the Community Development Block Grant. Elements of the project which are revenue producing, such as the parking structure, could be constructed through Revenue Bonds. Non-revenue producing elements,

such as the parks, would be eligible for General Obligation Bonds, which may not be available until 1984-1985. Thus, the recommended phasing will have to remain flexible and may be delayed.

On the other hand, housing and commercial development is proposed, flanking the proposed public development east and west. The western portion (55 acres owned by American Natural Resources) is further along in study than the eastern portion (the City of Detroit owned Uniroyal parcel).

Since much of the public development directly enhances the private development (the Mt. Elliott entry at Jefferson, Mt. Elliott Street improvements, the Entry Plaza, the parking structure), it is not illogical to assume that a coordinated approach to development would include a portion of the cost of the public development as an integral part of private development costs and funding.

Without a new increase in public funds, implementatin will require private investment in many of the elements of the public sector activity. If there is a future change in national policy or an improvement in local economy, public sources could supply sufficient funds to meet the projections in the recommended implementation phasing. Nevertheless, a portion of the costs of the public improvements still could and should be undertaken by the private development.

OPERATION & MAINTENANCE

The feasibility of new projected public developments cannot be fully evaluated without understanding the cost implications of operations and maintenance, since developmental costs do not completely represent the total cost of the project.

The Interpretive Center and Mt. Elliott Park are proposed to be owned and maintained by the Detroit Recreation Department, with the operations of the Interpretive Center's exhibition, conference and museum facilities to be under the control of the Dossin Great Lakes Museum on Belle Isle with the Detroit Historical Museum.

The Recreation Department would maintain the Mt. Elliott Park, the grounds of the Interpretive Center, and all maintenance and custodial duties of the buildings of the Interpretive Center. In preliminary discussions with the Recreation Department, the additional staffing required for this would be two park grounds employees and one custodial person, to maintain the converted Lighthouse Supply Depot and the ESA Building. The other buildings would be maintained by the private concessionaires operating them.

The operations of the Interpretive Center have been discussed with representatives of the Dossin Great Lakes and the Detroit Historical Museums. The primary cost of operating the Center includes staffing costs and display costs.

The duties of the Curator of the Dossin Great Lakes Museum are proposed to be expanded to include the Mt. Elliott Interpretive Center. In his charge would be a Junior Historical Curator, who would supervise the daily operations of the Center. Together they would schedule and arrange displays, staff the facilities with attendant and maintenance personnel, secure funding for continued operations, schedule the conference and meeting spaces, and arrange for special exhibitions and anyother required operations procedures. Two attendants would be required to maintain security and supervise displays and man the information and gift counter.

Display and exhibition costs include two basic conditions. First, initial set-up, which will require an immediate outlay for cases, display material, and signage. The majority of the historical items can be found in storage at the Dossin Great Lakes Museum and the Detroit Historical Museum, or will be gathered by private sources, such as the American Natural Resources Company, the Coast Guard, or the Bureau of Immigration and Naturalization, and so are not expected to add to the initial costs.

Other initial set-up costs will include conference and office furniture, a video-monitor security system (the multi-level nature of the building requires it), and miscellaneous furniture, fixtures and amenities.

The second set of exhibition costs will be the on-going costs of supplies, equipment, and consultants to maintain existing permanent displays, and to arrange new displays on a periodic basis. Rotating exhibits average \$700-1,000 and are presented for three-to-six month intervals.

In addition to display personnel, operating expenses would include utilities and general maintenance.

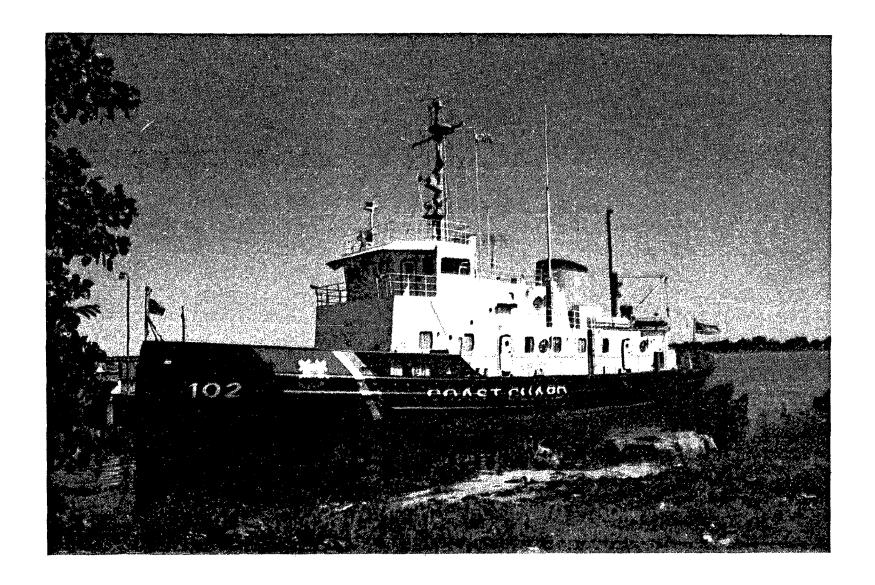
Income generated from recommended donations at the door of \$1.00 per person brings in. in actuality, 18¢ per person - based on experience at the Dossin Museum. The total estimated revenue generated from this is only \$200 per week. Based on a 50-week operating season, this brings \$10,000 per year. The experience from the gift counter at the Dossin is that it covers expenses and does not generate any appreciable income. Thus the museum/exhibition section of the Interpretive Center will require funding from outside sources, including limited City funds. corporation or foundation donations, and the like.

Costs can be reduced through increased exhibit preparation by outside sources, or through volunteer staffing of the Center, by a particular group, or groups, willing to assume this responsibility. Since no volunteer participation has been sought or offered, the operating expenses assume paid personnel are used. Also, the Center can be developed in a staged basis. By opening only the first two floors the first year and then increasing the area by one floor per year, the initial outlay can be reduced.

The operations of the other buildings will be primarily through private concessionaires and these costs are assumed to be covered in the income generated by rentals.

Projected Interpretive Center Operating Expenses Per Year (Lighthouse Depot)

Α.	Initial Set-Up (One-Tim	e	Cost)
	20 Display cases Display boards/	\$	60,000
	signage Conference/office		20,000
	furniture		10,000
	Video monitor system		7,000
	Audio/visual equip.		5,000
	Misc. furniture/fixtures	5	5,000
	Total		107,000
В.	Personnal Requirements		
	Junior Historical		
	Curator	\$	17,000
	2 attendants		31,000
	Total	\$	48,000
c.	On-Going Exhibits		
	2-to-4 displays/year	\$	2,500
	Misc. Maintenance	-	3,000
	Total	_ \$	5,500
		•	0,000
D.	Utilities & Maintenance		
	Gas	\$	6,600
	Electric		9,500
	Phone		1,200
	Water		3,500
	Maintenance/Repairs		1,000
	Miscellaneous		5,000
		_	•
	Total	<u>\$</u>	26,800
	First Year Total	\$1	187, 300



SUMMARY

The City of Detroit has an intriguing history. Perhaps no other area of the City has as rich and intense a history as the riverfront. The area that this study covers is slated for major new developments and also contains the dramatic Coast Guard buildings and slips and massive old industrial functions. It is in this mix that the greatest potential for future development lies.

The Coast Guard buildings that are studied in this report are proposed for re-use as public structures (The Mt. Elliott Interpretive Center) to interrelate with the proposed Mt. Elliott park. This park is part of the Linked Riverfront Parks Project which will link the Central Business District with Belle Isle. The Interpretive Center and Park will work together to attract people to new development and catalyze activity.

The City of Detroit is undertaking bold moves to plan a better future and to optimize its greatest natural asset, the Detroit River. It properly planned and executed Detroit can build on its strengths and become a major tourist, recreation and entertainment center to balance its industrial/business base.

The prime location of the Mt. Elliott Interpretive Center and Park make it essential to plan in a broad and exciting manner to allow and stimulate the greatest potential of surrounding development. New market rate housing, commercial, warehouse and factory conversions, recreation, fishing, historic and interpretive displays, entertainment and restaurants can generate a level of activity and worth imprecidented in the areas history. It is the recommendation of this study to pursue this goal, but only the dedicated work of both the public and private sectors will make it a reality.

US Department of Commerce

NOAA Coastal Services Center Library

Couth Hobson Avenue

Casicston, SC 29405-2413

